BISHWASH KHADKA

biswaskhadka10@gmail.com| 337-532-7202| linkedin.com/in/biswaskdk | github.com/biswaskdk | bishwashkhadka.com

EDUCATION

McNEESE STATE UNIVERSITY   May 2025
BACHELOR OF SCIENCE IN COMPUTER SCIENCE   **GPA 3.94**

- **COURSEWORK**: Software Engineering, DevOps, Adv. Data Structure and Algorithms, AI/ML, OOP, Cyber Defense, Web Development, Computer Organization & Architecture, Database Management, Structure Programming Language
- **ACHIEVEMENTS**: McHACKS 2.0 (**1ˢᵗ place**), **Outstanding Junior Award** in CS, ICPC - LSU (**3ʳᵈ Place**), TruHacks 2024 (**3ʳᵈ Place**), McHacks 1.0 2024 (**Top 5**), President's Honors List (2022-Present), **McNeese Sprint Court** 2023, 2024, 2025

TECHNICAL SKILLS

- **Programming Language**: Python, Java, Kotlin, C++, JavaScript (ES6), Golang, Prolog, GDScript
- **Tools**: React.js, Android Studio, Flask, Firebase, Jinja2, Tailwind CSS, Chrome Extensions, Git, GitHub, Jenkins, Linux, Godot, WAMP Server, Visual Studio Code, Storybook, Jest, CI/CD pipelines, Agile, Figma
- **Technologies**: OpenAI GPT APIs, DOM Manipulation, REST APIs, Async Programming, Persistent Local Storage, Session Management, PDF Export, Unit & Integration Testing
- **Certifications:** TestOut Linux Pro, Foundations of Project Management, Crash Course on Python, Gaming Market Analytics, CodePath Andriod Development, Advanced Technical Interview Prep

EXPERIENCE

SWE FELLOW
Headstarter AI   2024 – August 2024

- Designed a **web scraper** to extract RateMyProfessor data and upsert into **Pinecone**; integrated with a custom **RAG pipeline** using **LangChain** and **OpenAI** to generate real-time, query-relevant responses.
- Developed a SaaS flashcard generator using **Llama 3.1** via the **Groq API**, integrating a **Stripe** paywall and pricing plans.
- Created a support agent using a **RAG pipeline** with **OpenAI** and **Pinecone**, tailored to company knowledge.

IT INTERN
Lavner Education, Rice University   June 2023 - August 2023

- Quickly adapted to weekly curriculum changes, delivering hands-on instruction in **Python**, **AI**, **game development**, **cybersecurity**, and video production, while providing IT support in a high-pressure, fast-moving environment.
- Deployed and maintained **100+** devices, configuring operating systems, imaging systems, and troubleshooting hardware/software issues using remote desktop tools to ensure **99%** uptime for camp operations.
- Debugged and optimized student projects in **Python**, **Java**, and **Scratch** using **Visual Studio Code** and **Eclipse**; mentored **40+** students, and integrated robotics (**Arduino**) and AI learning modules into hands-on STEM curriculum.
- Configured classroom AV and recording equipment using **OBS Studio**, enhancing educational content delivery, and proactively communicated IT challenges to leadership, identifying and resolving system inefficiencies.

TECHNICAL PEER MENTOR
CodePath   May 2025 – August 2025

- Mentored 3+ CodePath students through **1:1** virtual meetings and biweekly check-ins, guiding them through technical challenges in Android (**Kotlin**, **Android Studio**, **UI** architecture) and web development (**JavaScript**, **React.js**, **REST APIs**).
- Participated in 3 training and pilot mentor calls, shaping best practices for a program supporting **100+** students.

STUDENT LIFE COALITION COORDINATOR
Student Life Coalition, McNeese State University   Sep 2023 - May 2025

- Handled over **4000** students over all the events, engaging them and increasing student involvement at the university utilizing effective planning methods.
- Organized major events by leading around **30+** events as a part of SLC with communication skills and teamwork.

LAUNCH LEAD AMBASSADOR
Fizz Social   Dec 2023 - Mar 2024

- Drove the university launch event for Fizz Social, increasing student adoption of the app by optimizing event execution.
- Increased daily active users by **2,000+** by leading a team of **46** ambassadors through user acquisition campaigns.

PROJECTS

POKESTRAIL (McHACKS Hackathon) **(1ˢᵗ Place)** – *Flutter | Firebase | Firestore | Firebase Auth*

- Developed "PokesTrail," a mobile platform using **Flutter** and **Firebase**, connecting McNeese students with the local community for mentorship, resource-sharing, and event collaboration, winning 1st place among **50+** teams.
- Developed a Wellness Website in under 9 hours, leveraging Git and Google Links for seamless collaboration.

GUFF AI (AI Powered Chat Assistant) – *Chrome Extension APIs | React.js | GPT-4o | Tailwind CSS | JavaScript*

- Developed Guff AI, a Chrome extension leveraging **Chrome Extension APIs**, **React.js**, **JS**, and **Tailwind CSS**, integrating **OpenAI GPT-4o API** for real-time, context-aware chat assistance and smart content extraction across platforms.

- Engineered a dynamic, responsive UI with customizable chat bubbles and persistent local storage, implementing advanced **DOM** parsing, asynchronous **RESTful API** calls, **error handling**, and unit/integration testing using **Jest**.

WAY OF THE FROG (2D Metroid Vania Game) – *Godot | GDScript | Aseprite | CI/CD*
- Engineered core gameplay mechanics in **Godot**, using **GDScript**, optimizing player mechanics for smooth transversal.
- Created interconnected levels with utility-gated progression, enhancing exploration and player engagement.
- Scripted **6+** NPC AI and boss mechanics for dynamic challenges, integrating custom pixel art assets into **Aseprite**.
- Leveraged Agile methodology to boost player satisfaction from **70%** to **90%** by integrating continuous user feedback (**CI/CD**), conducting 6 iterative playtesting cycles, and refining core gameplay mechanics based on actionable insights.

McNEESE BOOKHUB – *JavaScript | PHP | WAMP | SQL | HTML/CSS*
- Led a team of 4 to develop an online bookstore for McNeese students, improving accessibility and usability.
- Built a responsive frontend with **HTML**, **CSS** and **JavaScript** and secure **REST APIs** using **WAMP Server** to handle **PHP**.
- Designed and deployed a scalable **SQL** database, optimizing query performance by **30%** for product, and order data.
- Utilized the Waterfall model to reduce defects by **30%** through thorough requirements gathering, detailed design, and rigorous testing, ensuring **100%** feature completeness at launch; **OAuth**-based authentication for secure user sessions.

INTRO TO ANDROID DEVELOPMENT – *Kotlin | Android Studio | RecyclerView | AsyncHttp | SharedPreferences*
- Completed an 8-week**, 40+** hour Android development course focused on **Kotlin**, **Android Studio**, and **UI** architecture.
- Built **3+** Android apps, including a multi-screen capstone project using RecyclerView, ViewBinding, SharedPreferences, and live **API** integration via **AsyncHttpLibrary**.

THREADHUB (TRUHACKS) **(3rd Place)** – *Flask | Jinja2 | Firebase | Figma | HTML/CSS/JS/PHP*
- Secured **3rd** place at hackathon by demonstrating NoHungerZone's innovative solution to tackling food insecurity.
- Designed core features, including food pantry search, donor listings, and matching using **HTML**, **CSS**, and **PHP**.

THREADHUB – *Flask | Jinja2 | Firebase | Figma | HTML/CSS/JS/PHP*
- Developed e-Commerce web app that matches eco-friendly businesses with sustainable freelancers.
- Designed **UI** on **Figma** and coded responsive frontend website mockups with **HTML**, **CSS**, **JS**, and **PHP** for database.
- Built **Python** backend using the **Flask** framework and **Jinja2** for templating, with Firebase for user registration.

SUPER SCIENCE CONFERENCE – *T-SQL | ERD Design*
- Collaboratively Developed a robust **SQL** database using **T**-**SQL** resulting in **500** entries being stored in the database.
- Illustrated Database to professors, elucidating **ERDs** and **database** concept through a compelling demonstration.

TETRIS CLONE – *Java | Swing | File I/O | OOP*
- Developed a functional Tetris game by applying **OOP** principles in Java to create a modular game structure.
- Designed a score tracking, game state saving/loading, and leaderboard system by applying **OOP**, file I/O, and event-driven programming in **Java**, using **Java Swing** and **KeyListener** to enhance user engagement and gameplay continuity.

PORTFOLIO WEBSITE – *JavaScript | HTML/CSS | Git | Storybook | Jest | CI/CD*
- Built a fully responsive portfolio website using **JavaScript**, **HTML**, and **CSS**, showcasing frontend expertise.
- Integrated **Git version control**, enabling seamless updates and feature tracking to ensure proper **backtracking**.
- Implemented **UI** component testing using **Storybook** and **Jest**, ensuring design consistency across updates.
- Leveraged **CI/CD pipelines** to automate deployments, ensuring a **90%** uptime for continuous improvements.

LEADERSHIP & ACTIVITIES

SENATOR   Student Government Association
- Advocated for **1,500+** students in college of SEM and co-authoring 6 funding proposals, securing **$12,000+** in grants.

SGA REPRESENTATIVE   Association of Computing Machinery
- Placed **3rd** in ICPC 2023 & 2024; drafted tech funding bills and supported competitive programming initiatives.

SLC COORDINATOR   Student Life Coalition
- Organized **30+** student events for **4,000+** attendees, enhancing student involvement through collaborative planning.

LAUNCH LEAD AMBASSADOR   Fizz Social - McNeese
- Led **46** ambassadors to launch a new social app, driving **2,000+** DAUs through optimized outreach and event execution.

OUTSTANDING MEMBER   National Society of Black Engineers
- Recognized as **Outstanding Member of the Year** for achieving the highest engagement score with **100%** participation in all regional and national events, including **NSBE 50**, and representing the chapter at **McHacks 2.0 (1st)** and McHacks 1.0.

PRESIDENT   Nepalese Student Association
- Organized **10+** large-scale events, managed finances, and mentored **100+** international students.

VICE PRESIDENT   International Student Association
- Secured official organization status, designed branding materials, and coordinated cultural awareness programs.

SECRETARY   Mathematical Association of America
- Documented meetings, supported event logistics, and promoted math-focused academic events.