Kenneth Blake Sweezy

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EDUCATION

Lander University   August 2022 - May 2026
Bachelor of Science in Computer Information Systems   *Greenwood, SC*
- Relevant Coursework: Data Structures & Algorithms, Computer Organization, Networking, Memory Hierarchy

Georgia Institute of Technology   August 2023 – July 2024
Bachelor of Science in Computer Science   *Atlanta, GA*

EXPERIENCE

Full Stack Developer   August 2023 – December 2023
GT WebDev   *Atlanta, GA*
- Built a web application for group planning, enabling users to import their calendars for easier event scheduling
- Worked with a team of 8 to develop a full-stack group event planning and scheduling platform using React, Express, Node.js, and MongoDB
- Collaborated closely with 2 UI/UX designers to ensure the product was user-friendly and adhered to web accessibility guidelines

PROJECTS

eZsql | *Python, Cloudflare Workers, Taipy, MongoDB, CodeLlama*   Hacklytics 2024, February 2024
- Won *Best AI Application Built with Cloudflare* sponsor award
- Developed a user-friendly application to seamlessly translate natural language into SQL queries to enable intuitive database interaction for users
- Led a team of 3 to prototype and build a full-stack Artificial Intelligence tool over 3 days by using Cloudflare Workers AI and CodeLlama
- Implemented a MongoDB-based caching system to decrease total compute overhead by 22%, and decrease average end-user latency by 36%

LC-1001 Processor Implementation | *CircuitSim, C/C++, Assembly*   Class Project, January 2024
- Implemented a 32-bit LC-1001 processor datapath in CircuitSim, incorporating an ALU, registers, control logic, and implementing the LC-1001 ISA for a wide variety of operations and instructions
- Developed a microcontroller with full microcode for managing processor states and executing instructions using a 3-ROM microcontrol unit to optimize state transitions and manage control signal outputs
- Enhanced the original LC-1001 datapath to support hardware interrupts from timer and distance tracker devices

Banana Payments | *Express.js, MongoDB, Google Cloud Platform, Svelte*   HackGT X, October 2023
- Collaborated with a team of 3 to build a comprehensive full-stack mobile web app in 36 hours for the HackGT X Hackathon
- Designed and developed a user-friendly mobile web app for restaurant customers enhancing the dining experience and streamlining the payment process
- Developed a RESTful API using Node.js and Express, serving as the link between our front- and back-end systems, while connecting to our MongoDB Atlas database

GitHub Desktop | *React, TypeScript, CodeMirror, Git*   Open Source Contributor
- Implemented syntax highlighting functionality for 20+ programming languages with CodeMirror, improving code comprehension and making the platform more developer-friendly
- Worked with project maintainers to perform user testing and make improvements to the interface
- Collaborated with 10+ developers on various improvements spanning multiple areas of the application

Gobo.cf | *JavaScript, HTML, CSS, Git, Transifex*   Open Source Project Lead
- Developed a URL shortener for Scratch to alleviate the issue of long URLs in character-limited comment fields
- Led a team of 20+ contributors in building a web app by providing feedback on 40+ issues and merging 50+ PRs
- Worked with a team of 20+ translators to follow i18n principles and localize the project to 15+ languages

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, C/C++
Frameworks: Node.js, React, Express, JUnit, Svelte, MongoDB
Developer Tools: Git, Google Cloud Platform, MongoDB Atlas, Cloudflare Workers