JARETH GOMES
Full Stack Software Engineer

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EXPERIENCE

CTO | HümEIQ Schaumburg, IL   Jun 2023 – Current

- Rapidly developed a customizable course hosting platform using Typescript, Next.js 14, tRPC, DrizzleORM, and server actions within 10 weeks, enabling the company to develop asynchronous online course materials
- Optimizing server performance with the use of caching and static content generation wherever possible
- Conducts weekly meetings with the CEO on any new features added and for QA feedback, ensuring a great user experience when creating new course content and taking courses
- Maintains production deployments, infrastructure, and course material using Vercel, NeonDB, AWS S3, and Wistia

Lead Course Assistant | University of Illinois: Urbana-Champaign Urbana, IL   Aug 2020 – May 2023

- Spearheaded the Spimbot C++ development team, managing a team of approximately 6 teacher and course assistants which oversee the semesterly Spimbot lab and tournament
- Adapted quickly to working in the large codebase within the first few weeks of joining the Spimbot team
- Pioneered the idea of porting Spimbot to a browser-based platform, streamlining the lab experience and enabling students to complete assignments seamlessly on PrairieLearn, an online learning platform, eliminating setup complexities
- Employed technical skills in C++, Git, Docker, Qt, WebAssembly, Python, and Bash to develop course materials
- Maintained regular communication with the professor, updating on the Spimbot team's progress and any technical problems and solutions

STUDENT ORGANIZATIONS

API Lead | HackIllinois | ○ Urbana, IL   Sep 2021 – Mar 2023

- Led a team of 2 developers in the enhancement and maintenance of the open-sourced HackIllinois microservice API, using Go to implement new features and optimize performance with a focus on high reliability and availability
- Implemented robust deployment strategies utilizing Docker Hub, GitHub CI Actions, and AWS ECS, ensuring seamless production deployment and scalability for each service
- Engineered a comprehensive metrics system leveraging Prometheus and Grafana, enabling real-time service-wide monitoring and providing valuable insights into API performance
- Conducted regular 1-on-1s with API team members, providing inclusive and collaborative support, and feedback to optimize team performance and communication

EDUCATION

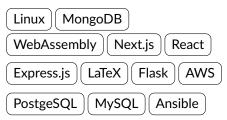**B.S. in Computer Science | University of Illinois: Urbana-Champaign | GPA: 3.9**   Aug 2019 – May 2023

Relevant courses: Computer Security II, Computer Security I, Cryptography, Distributed Systems, Audio Computing Lab, Game Development

TECH STACK

LANGUAGES
C++   Go   Python   Rust
TypeScript   Bash   Lua   Java
SQL   HTML   CSS   Solidity

TECHNOLOGIES
Linux   MongoDB
WebAssembly   Next.js   React
Express.js   LaTeX   Flask   AWS
PostgeSQL   MySQL   Ansible

TOOLS
Git   Docker   GDB   CMake
Nmap   Wireshark   Delve

TOOLS I LOVE
Neovim   tmux

CERTIFICATIONS & AWARDS

Outstanding Course Assistant
Apr 2022