Michael Stich

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Check out my software engineering in action → https://mcstich.com

SKILLS

Collaboration: Leadership, Communication, Git, GitHub, GitLab, DevOps, Agile Methodologies, CI/CD
Programming Languages: JavaScript, Typescript, Python, C, C++, SQL, YAML, Go
Microservices: AWS, AWS EC2, AWS RDS, AWS SES, AWS Amplify, Heroku, Azure, Google Cloud
Front End Development: React, React Native, Figma, Next.js, Tailwind CSS, Shadcn, HTML, CSS
Back End Development: Node.js (with Express), Django, REST APIs, Web Sockets, Socket.io
Database Management: MySQL, PostgreSQL, MongoDB, Drizzle, Sequelize, Prisma
Additional Skills: Cryptography, Docker, OpenAI API, ChatGPT Agents, Github Actions

WORK EXPERIENCE

Ringy **July 2024 – Present**
Software Engineer *Denver, Colorado*

- Collaborated with colleagues to resolve development challenges and ensured features and projects stayed on schedule through clear communication and efficient task management
- Built and refined responsive user-centric frontend interfaces, adhering to modern UI/UX best practices
- Developed and maintained backend services ensuring robust and scalable server-side functionality
- Led the design and implementation of AI-powered features, enabling scalable, tailored solutions that improved customer success

NASA – National Aeronautics and Space Administration **June 2023 – August 2023**
Software Engineer Intern *Cleveland, Ohio*

- Created software to efficiently manage and control a prototype Artemis lunar power grid, resulting in a substantial reduction of the prototype's development time
- Designed, modeled, and 3D-printed key prototype components, ensuring precise fit and functionality to accelerate prototype development
- Implemented a new fast frequency measurement algorithm in VHDL for the prototype's FPGA clock

NASA – National Aeronautics and Space Administration **January 2023 – May 2023**
Software Engineer Intern *Remote*

- Refactored the NASA Numerical Propulsion System Simulation (NPSS) Power System Library, resulting in significant performance and reliability enhancements crucial to the library's functionality
- Implemented unit tests for all electrical components within the library, ensuring 100% robustness and stability of the software
- Designed a CI/CD pipeline to automate testing and deployment for NPSS Library projects, employing a GitHub self-hosted runner that utilizes a local NPSS environment hosted by NASA servers

EDUCATION

Bachelor of Science in Computer Science **January 2022 – May 2025**
University of Colorado Boulder *Cumulative GPA: 3.6/4.0*