

# Michael Stich

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Check out my website: <https://mcstich.com>

## SUMMARY

Software engineer with three years of professional experience. Specializes in building scalable frontend, backend and cloud systems for large user bases. Passionate about solving complex problems and working with extraordinary people.

## SKILLS

**Collaboration:** Leadership, Communication, Git, GitHub, GitLab, DevOps, Agile Methodologies, CI/CD

**Languages:** C/C++, Python, JavaScript, Typescript, SQL, Java, Go, YAML, Markdown

**Microservices:** AWS (EC2, RDS, SES, Amplify), Heroku, Azure, Google Cloud, Vercel

**Front End Development:** React, React Native, Redux, React Query, Figma, Next.js, Tailwind CSS, HTML, CSS

**Back End Development:** Node.js (with Express), Django, REST APIs, Web Sockets, Socket.io, OOP

**Database Management:** MySQL, PostgreSQL, MongoDB, Drizzle, Sequelize, Prisma, Normalization

**Additional Skills:** Cryptography, Docker, OpenAI API, ChatGPT Agents, Github Actions

## RECENT WORK EXPERIENCE

### Ringy

July 2024 – Present

Software Engineer

Denver, Colorado

- Build and optimize responsive user interfaces and landing pages, improving usability and supporting thousands of daily users
- Drive cross-team collaboration to resolve development challenges, ensuring projects stay on schedule through clear communication and efficient task management
- Develop and maintain scalable backend services, strengthening system reliability and performance
- Lead the design and deployment of AI-powered features, delivering tailored solutions that boost customer engagement and 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

Graduated May 2025

University of Colorado Boulder

Cumulative GPA: 3.6/4.0