

Jonathan Miller

Software Engineer

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SUMMARY

Software Engineer with over **8 years** of experience delivering scalable and high-performance applications. Skilled in designing **C++** systems with multithreading, building **GTK** user interfaces, and integrating with **Python** for seamless data exchange. Adept at managing **Linux** environments, configuring CI/CD pipelines with **GitHub Actions**, and collaborating with teams to deliver robust solutions. Strong background in both frontend and backend development, ensuring versatile contributions across the stack.

SKILLS

- **Programming Languages:** C++, Python, JavaScript, TypeScript
- **Frameworks & Libraries:** GTK, React.js, Node.js, Express.js
- **Build & DevOps:** CMake, Conan, GitHub Actions, Docker
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud & Systems:** Linux, AWS, SSH, Server Management
- **Testing & Tools:** Jest, Git, Jira, Trello
- **Soft skills:** Cross-team collaboration, Problem-solving, Code Optimization

WORK EXPERIENCE

Insight Global, Houston, TX

02/2023 – Present

Software Engineer

- Designed and optimized **C++** components for high-traffic applications, improving performance by **30%** in production environments.
- Built **GTK**-based interfaces to streamline complex workflows with responsive event-driven logic.
- Integrated **C++ modules with Python** using ctypes, enabling reliable data conversions and shared library management.
- Implemented **CI/CD pipelines in GitHub Actions**, reducing deployment time by **40%**.
- Led debugging of **multithreaded applications**, resolving critical concurrency issues to ensure stability.
- Automated Linux-based server operations, including monitoring and secure access via **SSH**.
- Partnered with product teams to deliver new features, ensuring alignment with business goals.
- Conducted rigorous code reviews, raising code quality and maintainability.

Full Stack Developer

- Developed full stack applications combining **C++ backend modules** and **Python scripting** for data processing pipelines.
- Created **Linux-based server utilities** to manage deployments and streamline operations.
- Enhanced application reliability by implementing **multithreaded** processing, reducing latency by **25%**.
- Built and maintained **CI/CD workflows** for staging and production environments.
- Collaborated on internal tools using **React.js** for dashboards connected to **C++ data services**.
- Integrated **shared libraries** across services for cross-language support.
- Coordinated system migrations, including optimizing **PostgreSQL** databases for better query performance.
- Worked closely with QA to debug issues and improve coverage of unit testing.

Mosaic Consulting Group, Nashville, TN

01/2018 – 12/2018

Full Stack Developer

- Designed backend services in **Python** and supported **C++** integration for client solutions.
- Developed web-based user interfaces using **React.js** to simplify client reporting workflows.
- Implemented **RESTful APIs** to connect frontend and backend systems seamlessly.
- Contributed to database optimization on **MySQL**, improving reporting speed by **20%**.
- Ensured secure and efficient deployment processes through **Linux-based environments**.
- Assisted in migrating legacy applications to modern frameworks, reducing maintenance overhead.
- Collaborated across teams to align technical solutions with client objectives.

EDUCATION**Siena College, Loudonville, NY**

2013 - 2017

Bachelor's Degree of Computer Science