Evann Hall - Software Engineer

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Experience

KNAPP Inc.   Greencastle, PA
Software Operations Engineer   Oct 2023 - Ongoing

- Authored internal Python tools to monitor applications by utilizing regex and a relational database system (SQL Server) saving over three hours of manual work per employee per week. Utilized tools to liase with customer on system status and relevant business information, regularly highlighting operational inefficiencies and providing workarounds for failures tens of times per day.

- Collected and analyzed production log files for two distributed Linux based systems to create DevOps tickets in real time during operations, facilitating in the documentation of over 500 priority project incidents as well as provided support for resolution of over 100 bugs.

- Regularly implementing PL/SQL queries within a production SQL Server relational database, addressing ad-hoc customer requests and provided information to customer representatives up to Director level, resulting in a more strict adherence to Service Level Agreements (SLAs) in >98% of incidents.

- Performed system update deployments to two servers on a bi-weekly basis, merging feature branches from version control software (Gitlab/Azure). Resolved merge conflicts and other errors during update deployment, resulting in a 100% success rate of deployment of updates.

- Improved process of onboarding new hires by organizing operational documentation early for incident resolution and the underlying system, decreasing the onboarding time of new hires and allowing new members to contribute in a shorter timeframe of weeks rather than months.

Education

Franklin University   Columbus OH
Master of Computer Science (Software Systems)   Fall 2023 - Ongoing

Franklin University   Columbus OH
Bachelor of Computer Science   Fall 2019 - Summer 2023

Skills

Programming:	Java, Python, Javascript, CSS, PL/SQL, Lua, Bash, C
Technologies/Frameworks:	Spring/Spring Boot, Linux (Arch, Debian), SQL Server, SQLite
Tools:	Git (GitHub, GitLab), OpenSCAD, regex, neovim/nvim
General:	Communication, Documentation, SDLC/Agile, Test Driven Development

Projects

evannhall.dev *Java/Spring Boot, SQLite, CSS, Wekan (Project Management), Zettlr* https://evannhall.dev
Authored a custom web platform from the ground up to capture leads and gauge interest with Java, CSS and Javascript with minimal external dependencies. Implemented custom spam filter to block inbound spam messages with a success rate of 99%. Authored custom deployment platform to allow for download of completed projects, allowing hundreds of interested to see my work. Implemented rate limiting functionality decreasing log volume by hundreds of MB per day.

Reversi AI Agent *Java*   https://github.com/halle15/COMP-670-Othello-Bot/
Used Java to implement an autonomous AI agent that a user can play Othello/Reversi against. Implemented complex algorithms including Mini-Max search with Alpha Beta Pruning for runtimes reaching less than a second per turn. Engineered custom heuristic based on breadth first search (BFS) analysis of game state advantages resulting in 2nd place in tournament against other students' implementations.

TraQR - Full Stack Application *Java/Spring Boot, React, MySQL*   https://tinyurl.com/2uspc6ke
Spring Boot and React app for end users to track articles based on assignment of articles to QR codes for physical storage control and retrieval, while logically tracking in a MySQL relational database. Responsible for defining application model structure, implementing data access objects (DAOs) to relational database, and created React front end user interface for end user interaction. Streamlined contribution for team by implementing Git version control repository and advising on best practices.

Clean Freakz Detailing Full Stack Website *Java/Spring Boot, Bootstrap, SQLite, Linux*
Designed and developed a responsive web platform for a local car detailing service using Java and a SQLite relational database for a customer contact system directly resulting in tens of leads per week. Created custom Javascript and CSS solutions with a simple but timeless design leading to greater local brand recognition.