

Andrew Rose

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Experience

Junior Software Developer

Saturna Capital

Bellingham, WA 07/2022 - Present

- Led the design and development of a new event-driven open architecture financial services product, resulting in a significant revenue boost, by using modern technologies including **NestJS**, **PostgreSQL**, **React**, and **Hasura** to deliver a robust and scalable solution.
- Designed and implemented scalable APIs and databases to efficiently manage client's personally identifiable information and transaction data, ensuring to maintain data integrity and security.
- Collaborated closely with front-end engineers to establish seamless communication channels by implementing highly available and fault-tolerant message queues, enhancing overall system reliability.
- Implemented efficient Continuous Integration/Deployment pipelines by using Docker containers and environment decoupling techniques to significantly reduce build times and enhance deployment efficiency.
- Led the successful implementation of end-to-end testing strategies for multiple products, ensuring comprehensive test coverage and high-quality deliverables.

IT Technician II

Swinomish Casino and Lodge

Anacortes, WA 02/2019 - 07/2022

- Enhanced department productivity by implementing automation techniques using Bash and **Python**, streamlining network job processes and minimizing manual errors.
- Significantly decreased deployment time for operating system and software updates by employing Powershell scripts, leading to improved workstation performance and enhanced security measures.
- Coordinated the imaging and deployment process for new workstations, overseeing the setup and configuration of over 200 employee machines, resulting in a seamless onboarding experience.
- Worked as an intern from 02/2019 to 08/2019, before being promoted to a level 2 technician.

Education

Bachelor of Science

Western Washington University

Bellingham, WA 09/2017 - 12/2022

- Major in Computer Science and Minor in Mathematics
- Coursework: OOP Design, Secure Software Development, Database Systems, Data Structures, Analysis of Algorithms

Projects

Market Trading Bot

- Developed a backend tool for automated equity trading strategies on the NYSE using **Python**.
- Utilized InteractiveBrokers API for order initiation and backtesting to determine strategy viability.
- Implemented a simulated "fake-money" environment for strategy testing and a production environment for live trading.

Finance Tracker

- Designed and implemented a full-stack financial tracking web application using **React**, **Nest.js** and **Postgres**.
- Integrated the Plaid API for secure authentication and seamless retrieval of financial data from user bank accounts.
- Provides users with an organized dashboard to view income and expenses grouped by user defined categories.
- Optimized performance by utilizing a PostgreSQL database system to cache transaction history and minimize API calls.

Support Ticket Dashboard

- Created an application to streamline support ticket scanning and organization within the IT department using **Python**.
- Designed an interface for displaying open tickets, organizing tickets based on priority and due date.

Skills

- **Languages:** Java | Python | Javascript | Typescript | C++ | Bash | SQL | GraphQL
- **Frameworks:** React.js | Angular | Node.js | Nest.js | Next.js
- **Tools:** Git | Docker | Linux | Jira | Gradle | CI/CD | AWS