KATE HOMES

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Full Stack Software Developer with 3 years of experience building scalable, data-driven web applications. Skilled in both front-end and back-end systems using Java, React, SQL, Docker, and AWS. Strong communicator with hybrid team experience and a focus on accessible UI/UX. Currently expanding React expertise to create intuitive enterprise tools.

EDUCATION

KETTERING UNIVERSITY   FLINT, MI
Bachelor of Science in Computer Science   *Expected June, 2025*
- Major: UI/UX Design, Cloud Computing, Software Engineering, Database Systems
- Concentration: Game Design, Virtual Reality, Computer Graphics, Business of Video Game Production

PROFESSIONAL EXPERIENCE

GRID, LLC   TROY, MI
Software Developer Co-op   January 2022 – October 2024
Contributed to the development of Service Library, a web application for Stellantis dealership technicians, used for real-time parts lookup, repair documentation, and diagnostics. Worked across the full stack in a hybrid team environment, enhancing data infrastructure, UI design, and cloud performance.

Service Library – Frontend (Technician UI)
- Refactored JSP-based UIs and integrated jQuery and SCSS for responsive technician dashboards, improving usability and reducing navigation time.
- Streamlined UI load times by optimizing DOM manipulation and reducing frontend payloads.

Service Library – Backend (Parts Lookup & Data Infrastructure)
- Developed an Apache Solr-powered search engine with spell-check and synonym matching, increasing accuracy and speed of parts lookup queries by over 30%.
- Migrated high-load SQL queries to Solr indexes, reducing backend strain during peak usage.
- Built and maintained CI/CD pipelines using Jenkins for seamless deployment and staging validation.

Service Library – Backend (Vehicle Module)
- Managed MariaDB schemas and APIs that served VIN-specific repair history and maintenance recommendations.
- Designed RESTful endpoints to decouple vehicle service records from dealership survey logic, increasing modularity and future scalability.

Co-op Thesis Project – Flat File Optimization & Deep Storage
- Converted low-frequency SQL records into Parquet flat files and integrated AWS Athena for serverless querying, reducing DB overhead by 40%.
- Implemented a data archival strategy using AWS S3 and Lambda, enabling cost-efficient long-term data storage with minimal latency on recall.

SKILLS

- Languages: Java (Spring Boot, REST APIs, Hibernate), JavaScript (React, Angular), TypeScript, C# (.NET, Unity), C++, Python
- Frontend Development: HTML, CSS, SCSS, Bootstrap, Tailwind, UI/UX Design, Figma
- Backend & Databases: SQL, API Development, Apache Solr, Parquet, Database Optimization
- Cloud & DevOps: AWS (S3, Lambda, EC2), Docker, Jenkins, CI/CD Pipelines
- Tools & Methodologies: Agile/Scrum, Git, Atlassian Suite (Bitbucket, Confluence, Jira)