JONATHAN POTEET

(239) 564-5052 | Teetopjon@gmail.com | linkedin.com/in/jonathan-poteet | https://jonathanpoteet.github.io/

SUMMARY

Software Engineer with 5+ years of experience shipping production-grade applications. Expert in TypeScript, Python, and Java with a focus on containerized orchestration, CI/CD automation, and high-performance distributed systems.

EDUCATION

Vanderbilt University | *M.S. in Computer Science* | *Nashville, TN*   *December 2025*
Florida State University | *B.S. in Information Technology* | *Tallahassee, FL*   *December 2020*

PROFESSIONAL EXPERIENCE

General Motors, **Software Engineer** – Roswell, GA   *March 2021 – December 2025*

- *Full-Stack Modernization:* Key contributor to modernizing global technician and customer web platforms (Service Workbench, D2C, Dash) using Angular, TypeScript, Next.js, Java, and SQL.
- *Containerization & Environment Engineering:* Streamlined local development and deployment by architecting Docker and Podman container environments; leveraged WSL (Windows Subsystem for Linux) to build, debug, and manage microservices in complex, multi-repo Linux environments, ensuring parity between local and production stages.
- *Performance Leadership:* Led the My Orders front-end for multiple European markets; migrated the Dash monorepo to Solid.js, significantly improving performance and maintainability.
- *DevOps & Quality:* Enhanced API discoverability using Spring Boot Swagger and managed CI/CD pipelines via Azure DevOps. Enforced code quality standards (Angular and ESLint Strict Modes) on legacy systems.
- *Localization & Data:* Integrated Strapi CMS and APIs to deliver real-time, localized order, financial, and vehicle data across four European markets (FR, SE, CH, DE).
- *Efficiency:* Implemented Vitest for comprehensive testing and utilized GitHub Copilot to accelerate component development and unit test creation.

PROJECTS

Random Forest Pipeline & Responsible AI   *July 2025 – August 2025*

- Developed a complete Random Forest pipeline for predictive modeling. Applied Responsible AI principles to assess bias and ensure model interpretability. Engineered automated feature selection and hyperparameter optimization workflows, enhancing model accuracy and robustness.

Kubernetes Cluster for Distributed Systems   *October 2024 – November 2024*

- Designed and deployed a distributed system across four VMs using Kubernetes, Docker, and Ansible. Integrated Kafka for high-throughput messaging, optimizing CPU/memory usage to scale throughput from 500 → 5,000 messages per node. Developed CI/CD automation to streamline image management and enforce deployment immutability.

Model-Integrated Computing – Turtle Graphics Design Studio   *October 2024 – December 2024*

- Built a visual design studio leveraging Domain-Specific Modeling Languages (DSMLs). Implemented a model-to-code transformation pipeline to automatically generate executable code, enabling rapid prototyping and extensibility for domain-specific design needs.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C, SQL, HTML
Frontend/Web: React, Next.js, Angular, Solid.js, HTML, CSS, SCSS
Backend/Runtime: Node.js, Spring Boot, Kafka Databases: MongoDB (NoSQL), MySQL, Postgres (SQL)
DevOps/Tools: Kubernetes, Docker, Ansible, Azure DevOps, CI/CD, Jupyter, NPM, Jira, Podman
Operating Systems & Networking: Linux (Ubuntu), WSL, virtual machines, TCP/IP, service port configuration, container networking

CAMPUS & COMMUNITY INVOLVEMENT

Study Abroad, FSU International Programs, London, England   *Summer 2019*
Eagle Scout, Boy Scouts of America   *2016*