Evan Bourgoine

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Education

Virginia Tech   Blacksburg, VA
Bachelor of Science in Computer Science   *2021-2025*
- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Computer Systems, Computer Architecture, iOS Development, XR Development, Linear Algebra, Multi-Variable Calculus, Applied Combinatorics

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, C, C#, SQL, HTML/CSS, Swift
Frameworks & Libraries: React, Node.js, Express, Spring Boot, Chart.js
Databases: MongoDB, MySQL, PostgreSQL
Developer Tools: Git, GitHub, Docker, Docker Compose, Eclipse, VS Code, XCode, Maven, npm
Technologies: AWS, Firebase, REST APIs, JWT Authentication, Microservices, CI/CD, Kubernetes, JPA/Hibernate

Projects

CI/CD Pipeline Dashboard | *Node.js, React, MongoDB, MySQL, Docker, JWT*   January 2026
- Developed full-stack monitoring dashboard integrating MongoDB and MySQL to track GitHub Actions workflows with real-time metrics and data visualizations, serving pipeline analytics for 50+ workflow runs
- Built RESTful API with Node.js and Express featuring JWT authentication, CORS configuration, and GitHub API integration to automatically sync pipeline data including success rates, duration trends, and build metadata
- Implemented React frontend with Chart.js displaying interactive visualizations and real-time statistics, achieving 95% UI responsiveness across desktop and mobile devices
- Containerized multi-service application using Docker and Docker Compose, reducing deployment complexity and ensuring consistent environments across development and production

Code Quality Analyzer VS Code Extension | *TypeScript, VS Code API, GitHub API*   November 2025
- Developed VS Code extension using TypeScript and Extension API to analyze code quality in real-time, detecting 7+ issue types including variable declarations, console statements, function complexity, and code style violations
- Integrated GitHub REST API using Axios to authenticate and fetch repository metrics (stars, forks, issues), displaying data in custom webview panels with VS Code theming for seamless user experience
- Implemented diagnostic collection system with status bar integration providing immediate feedback on code quality issues with yellow squiggly lines, hover tooltips, and configurable analysis rules
- Designed for multi-language support analyzing JavaScript, TypeScript, and Python files with real-time feedback as developers type, improving code quality during development

E-Commerce Microservices Architecture | *Spring Boot, Java, PostgreSQL, Docker*   October 2025
- Architected microservices-based e-commerce backend using Spring Boot 3.2 and Java 17, implementing separate Product and Order services with independent PostgreSQL databases following database-per-service pattern
- Developed RESTful APIs with full CRUD operations, stock management, and order tracking featuring service-to-service HTTP communication using RestTemplate for synchronous calls between microservices
- Implemented transaction handling with automatic rollback on failures, reducing product inventory through inter-service calls and maintaining data consistency across distributed services
- Containerized services using Docker multi-stage builds and orchestrated deployment with Docker Compose, configuring PostgreSQL health checks, service dependencies, and environment-based configuration for production readiness

Leadership & Activities

Lead Technology Volunteer - York Public Library   2019-Present
- Assisted in the setup and configuration of a public library computer booking system using LibKi, improving equitable access to digital resources
- Mentored children aged 5–12 in introductory robotics courses, guiding them through building and programming robots using Makeblock kits

Academic Chair - Alpha Sigma Phi Fraternity   2023-2025
- Led academic support initiatives for a 150+ member organization, improving overall fraternity GPA from 3.20 to 3.35
- Provided 1-on-1 and group tutoring in engineering, science, and mathematics courses