

RUSHEEL CHANDE

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Education

University of Washington, Seattle

June 2026c

Bachelor of Science in Informatics - Software Development

GPA: 3.7/4.0

- **Relevant Courses:** Data Structures and Algorithms, Programming III (OOP), Advanced Data Science (Machine Learning), Databases and Data Management, Full-Stack Development, Enterprise Risk Management and Cybersecurity
- **Leadership:** Delta Tau Delta Director of Information Technology and Risk Manager, Husky Coding Project
- **Honors/Awards:** Dean's List (Since Spring 2023)
- **Certifications:** AWS Certified Developer - Associate, Large Language Model Operations (Duke University), Microsoft Certified: Azure Fundamentals, UW Foster School of Business R Certificate, Vanderbilt University Prompt Engineering Certificate

Work Experience

Amazon.com

Sunnyvale, CA

Software Development Engineer in Test Intern

June 2025 – October 2025

- As a 16-week full-time SDET intern on Amazon Smart Vehicles—the team that brings Alexa to in-vehicle infotainment for OEMs like BMW and Rivian—I worked with PMs, QAEs, and SDEs to define, then design, build, test and deploy 2 automation tools; led hands-on workshops to onboard QAEs to the new tools.
- Built an automated UI validation system for Alexa in Android Automotive infotainment that drives devices via ADB and validates UI and safety compliance in the cloud; reduced manual review time from minutes to seconds and improved QAE efficiency by 80%.
- Created a visual-UPL measurement pipeline that calculates the time from a user's utterance end to the rendered Alexa response across multiple interaction types; fully eliminated QAE stopwatch-based timing and delivered standardized latency metrics directly into CI dashboards.

Valor Robotics

Daytona Beach, FL

Software Engineer Intern

May 2024 – September 2024

- Valor Robotics develops sustainable engineering solutions across aerospace, defense, and environmental domains, delivering projects for NASA and the U.S. Navy, such as underwater EOD drones.
- Designed and deployed a full-stack automated inquiry tracking system with a scalable database, reducing response times and efficiently handling 100+ inquiries within weeks of launch through indexed search and pre-filtered retrieval.
- Implemented robust security measures including Google reCAPTCHA, XSS prevention (DOMPurify.js), and NoSQL sanitization to protect data integrity and block spam.

Projects

Financial Analytics Dashboard (React/Node/Express/MongoDB/MUI)

- Developed a full-stack financial analytics dashboard that provides real-time revenue tracking, transaction management, and interactive data visualizations, enabling data-driven decision-making for business operations.
- Implemented advanced MongoDB aggregation techniques to optimize database performance, allowing efficient analysis of sales trends, customer demographics, and category-based revenue breakdowns.

Multiplayer WebSocket Pong (React/Node/MongoDB)

- Built a real time multiplayer Pong platform with ELO style matchmaking, live chat, and persistent leaderboards powered by MongoDB and WebSocket game loops.
- Secured REST and WebSocket flows with Azure AD SSO, session middleware, and authoritative server side match state for low latency play.

Technical Skills

Languages: R, Python (Seaborn, scikit-learn, NumPy, Pandas, Matplotlib, TensorFlow, Keras, OpenCV, pytest), Java, JavaScript, TypeScript, SQL

Backend: Node.js, Express.js, MongoDB, SQLite3, Mongoose

Frontend: HTML, CSS, JavaScript, React, Redux Toolkit, Bootstrap, Material UI

Clouds & Databases: Azure, AWS, MongoDB, Azure Data Studio

Web Technologies: AJAX, REST APIs

Developer Tools: IntelliJ, VSCode, Jupyter Notebooks, Android Studio, Docker, Jenkins, Git, GitHub, Miro, Render.com, Linux command line, Appium, UIAutomator2, Android Debug Bridge (ADB), Test reporting (Allure, JUnit XML), Load/soak/stress testing