

Ravi Ray

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Portfolio

Professional Summary

Recent Computer Science graduate with a 3.06 GPA and hands-on experience in full-stack development, mobile applications, and data analysis. Proficient in Java, Python, C++, and cloud technologies, with a proven track record of developing scalable software solutions and optimizing workflows. Eager to leverage technical skills and problem-solving abilities in an entry-level software developer role.

Education

University of Texas at Arlington, Arlington, TX Graduated: Summer 2025
Bachelor of Science in Computer Science, GPA: 3.06
Relevant Coursework: Algorithms and Data Structures, Software Engineering Principles, Database Systems, Artificial Intelligence and Machine Learning, Neural Networks, Information Security, Senior Design Capstone I & II.

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript, Dart, SQL
Frameworks & Libraries: Django, Flutter, Bootstrap, WebSockets, Matplotlib, React.js
Tools & Platforms: Git, GitHub Copilot, VSCode, SQLite, Maven, Docker, Jenkins
Web Technologies: HTML5, CSS3, RESTful APIs
Cloud & Databases: AWS (EC2, S3), MongoDB, PostgreSQL
Methodologies: Agile/Scrum, Test-Driven Development (TDD), CI/CD
Operating Systems: Windows, Linux, iOS, Android

Professional Experience

Software Development Intern, United States Army Corps of Engineers (USACE) — Tulsa, OK Fall 2024 – Spring 2025

- Collaborated with USACE engineers to develop a cross-platform Flutter mobile application for real-time monitoring of water levels across 38 lakes in the Tulsa District, integrating API data feeds and geo-mapping for enhanced navigation.
- Implemented push notification systems using Firebase to alert users of flood risks, resulting in improved emergency response times by 25% during simulated tests.
- Conducted code reviews and utilized Agile methodologies to ensure high-quality deliverables, contributing to a scalable app deployed on iOS and Android platforms.
- Performed user acceptance testing and iterated on feedback, enhancing app usability and achieving 95% user satisfaction in pilot trials.

Data Coordinator, Amazon Sort Center — Irving, TX Apr 2019 – Present

- Managed and analyzed production data for over 500 products daily using Python scripts and SQL queries, achieving 98% data accuracy and reducing discrepancies by 20%.
- Developed automation tools in Python to streamline data audits, improving overall data integrity by 15% and saving the team 10+ hours weekly in manual processing.
- Collaborated with cross-functional teams, including software engineers, to optimize warehouse workflows by integrating API endpoints for real-time inventory tracking.
- Utilized AWS services (S3 and EC2) to store and process large datasets, ensuring secure and efficient data handling in compliance with company standards.

Software Update Technician, FedEx Supply Chain — Coppell, TX Jun 2022 – Aug 2024

- Executed software updates on over 1,000 smartphones and devices, achieving a 99% success rate through rigorous testing and debugging in Java and Android environments.
 - Diagnosed and resolved complex software issues using custom diagnostic scripts, reducing average resolution time by 20% and minimizing downtime for logistics operations.
 - Trained and mentored a team of 15+ technicians on best practices for troubleshooting and version control with Git, enhancing team efficiency and knowledge sharing.
 - Implemented automated testing frameworks to validate updates, ensuring compatibility across devices and reducing post-update errors by 30%.
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Selected Projects

Turn of Destiny Multiplayer Game (Java, WebSockets, Maven) — Summer 2024

- Engineered a real-time multiplayer game supporting up to four players with low-latency server-client communication, hosted locally on port 9003.
- Optimized game logic and networking code, reducing latency by 40% and improving player experience through seamless interactions.

Multiplayer TicTacToe Game (HTML, Java, WebSockets, Maven) — Summer 2024

- Built a real-time multiplayer game server handling multiple sessions on port 9080, utilizing HTTP and WebSocket protocols for efficient communication.
- Incorporated robust error handling and state management, resulting in a 100% uptime during testing with multiple concurrent users.

Dating App Responsive UI (HTML5, CSS3, Bootstrap) — Fall 2023

- Designed and developed a mobile-responsive user interface adhering to modern UX principles, achieving cross-platform compatibility across devices.
- Enhanced accessibility features, leading to a 30% improvement in user engagement metrics during prototype evaluations.

Income and Expense Analyzer (Python, Django, Matplotlib) — Spring 2024

- Created a web-based tool to process CSV data for financial analysis, automating calculations and generating visualizations for better insights.
- Integrated data validation and error-checking mechanisms, reducing processing errors by 25% and improving report accuracy.

Certifications & Awards

- Google Cybersecurity Professional Certificate (Coursera) — Feb 2025
- Python Programming Fundamentals (LinkedIn Learning) — Apr 2025
- AWS Certified Advanced Networking – Specialty (LinkedIn Learning) — Mar 2024
- Practical GitHub Copilot (LinkedIn Learning) — Apr 2024
- Employee of the Month (*FedEx Supply Chain*) — Jan 2024

References

Available upon request.

Reference Letter: U.S. Army Corps of Engineers, Department of Defense