

# Ravi Ray

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Portfolio

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## 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.

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## 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.

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## 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

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## Professional Experience

**Software Development Intern**, United States Army Corps of Engineers (USACE) — Tulsa, OK Fall 2024 – Summer 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.

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## 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

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## References

Available upon request.

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