

Parker Shamblin

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EDUCATION

University of South Florida

Bachelor of Science in Computer Science

Tampa, FL

Expected Dec. 2026

- GPA: 3.6/4.0
- Recipient of \$10,000 annual NSF S-STEM FLIT-GAP Scholarship

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, JavaScript, C#

Backend & Web: Spring Boot, REST APIs, Node.js, , JSP/Servlets, JDBC, Flask

Databases: SQL Server, PostgreSQL, Oracle

Data & Analytics: Excel, SQL, ETL, Pandas, Tableau, Power BI

Tools & Frameworks: Git, Docker, Kubernetes, Apache Tomcat, OpenCV, Unity, React.js

EXPERIENCE

University of South Florida

Undergraduate Research Assistant

Tampa, FL

May 2022 – Dec. 2022

- Developed a VR construction safety training platform in Unity and C#, simulating job-site hazards, user interactions, and safety response workflows.
- Converted construction safety requirements into interactive training scenarios for hazard recognition and road-work safety education.
- Presented the prototype to Florida Department of Transportation stakeholders and explained potential real-world training applications.

Booz Allen Hamilton

Summer Games Intern

Tampa, FL

May 2019 – Aug. 2019

- Contributed to a team prototype for a federal client, using Python to ingest, clean, and standardize sample sensor and transactional datasets.
- Helped design PostgreSQL-backed data workflows and a Spring Boot API concept for exposing aggregated metrics to downstream analysis tools.
- Wrote documentation and test cases to support demo readiness, maintainability, and handoff to senior engineers.

PROJECTS

RuneScape Computer Vision Automation Project | *Python, OpenCV, PyAutoGUI*

- Trained a custom OpenCV cascade classifier using 200+ positive images and 1,000+ negative samples to detect in-game objects for real-time automation.
- Implemented multi-threaded approach to capture game screenshots, process them through the trained model, and perform automated mouse interactions simultaneously without blocking the main detection loop.
- GitHub: github.com/parkershamblin/opencv-OSRS1

Retail Banking & Brokerage Web Platform | *Java, JSP/Servlets, JDBC, Oracle XE, Tomcat*

- Built a Java web application for retail banking, brokerage workflows, account management, and transaction history using JSP/Servlets, JDBC, Oracle XE, and Apache Tomcat.
- Designed normalized Oracle database tables for customers, accounts, transactions, and brokerage records, supporting CRUD operations, joins, aggregation queries, and transaction history retrieval
- Separated presentation, business logic, and data access layers to improve maintainability and mirror common enterprise Java application structure.
- GitHub: github.com/parkershamblin/retail-banking-brokerage-platform