

Whitten Oswald

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EDUCATION

Rowan University

Glassboro, NJ

Bachelor of Science, Electrical & Computer Engineering

GPA: 3.75

SKILLS

Languages: C++, C, JavaScript, HTML/CSS, Java, TypeScript, XML, MATLAB

Frameworks: React.js, Node.js, Bootstrap

Tools & Technologies: Git, Jira, Confluence, REST API, Postman, MongoDB, Nginx

EXPERIENCE

Comcast

Philadelphia, PA

Software Engineering Intern

May – Aug 2022

- Completed **10+ tasks** and developed **2 novel features** for Comcast's Smart Network Platform, including the design of a reusable **banner/announcement** component.
- Helped reduce team's Jira backlog **by 20%** over the course of five consecutive sprints.
- Worked in a collaborative **Agile** environment with **daily stand-ups** and bi-weekly sprint planning/retrospectives.

PROJECTS

[Developer Portfolio](#)

Web Development

- Built and deployed personal web development portfolio to **Nginx HTTP web server** in **Linux** environment.
- Improved website security by adding **SSL Certificate** to server configuration file.
- Expanded site functionality to include arcade section with Tic Tac Toe, Breakout, and other classic games.

[MyFaceCards](#)

Computer Vision & Image Processing Project

- Implemented custom algorithms—using MATLAB Computer Vision and Image Processing Toolboxes—to transpose **digitized facial features** of an individual's digital photo **onto the face/court cards** in deck of playing cards
- Independently designed/built program from scratch and **reduced run-time** of program to **< 4 seconds** for all 12 face cards in a playing card deck.

[Facial Recognition Program](#)

Machine Learning Project

- Created supervised machine learning model using kNN Classification and achieved **91%+ recognition precision** in detecting faces from database of **400 images**.
- Applied algorithm optimization techniques such as **dynamic programming**, to decrease program **run-time by nearly 30%**.

Engineering Clinics

Rowan University

- Acquired **leadership, initiative**, and **communication** skills in group-oriented projects.
- Expanded **public-speaking skills** through individual and **team-based** technical speeches.
- Produced documentation/analysis of team's work, including spreadsheets, Gantt charts, line graphs, and more.