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

Front End Web Portfolio
React.js Project
- Built functional and **reusable** web components in React.js including a **counter** module, a **Tic Tac Toe** game, a **camera/webcam application**, and an **image cropping tool.**
- Integrated various components into a single React project, committed and pushed to GitHub repository using Git, and hosted React webpage using GitHub Pages.

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.