

# Whitten Oswald

Cell: 856-739-6005 | [whittenoswald@gmail.com](mailto:whittenoswald@gmail.com) | [Developer Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [YouTube](#)

## EDUCATION

### Rowan University

*Bachelor of Science, Electrical & Computer Engineering*

GPA: 3.75

Glassboro, NJ

May 2023

## 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

*Software Engineering Intern*

Philadelphia, PA

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 visual documentation/analysis of team's progress, including product photos, spreadsheets, **Gantt charts**,

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line graphs, and more.