

Benjamin Simms

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EDUCATION

University Of Central Florida
Bachelor of Science in Computer Engineering

Orlando, FL
Aug 2022

PROJECTS

Yacked Weightlifting Tracker | *React, Express* | [Github Repository](#) **Nov 2022 – Present**

- Designed a full stack web application to manage workout data and decrease time logging exercises
- Created REST API endpoints to persist user data in a MongoDB database for cross device tracking
- Implemented template workouts for starting a routine without needing to format the routine each workout
- Displayed historical workouts including metrics of the exercises to the user for progress tracking

Computer Vision Controlled Lighting System | *Python, C++* **Jan 2022 – Aug 2022**

- Developed a hand-gesture controlled lighting system using a NVIDIA Jetson Nano for directing light hands free
- Interfaced a support vector machine with a neural network from NVIDIA to perform hand gesture classification
- Implemented PWM motor control with microcontroller to direct mounted light towards hand gestures
- Wrote Python scripts to create large image datasets in seconds for training and testing support vector machine

Agenda Planner | *React Native* **Feb 2021 – Apr 2021**

- Collaboratively developed smartphone front end using React Native and Expo mobile
- Designed React components to allow the user to seamlessly plan daily agendas with deadlines
- Interfaced with APIs written by other team members to persist data in MongoDB database
- Utilized Swagger to test and document API endpoints

WORK EXPERIENCE

Document Digitization Manager **May 2017 – Aug 2017**
Kaufman Lynn Construction *Boca Raton, FL*

- Led a team in converting over one million construction documents to digital format saving the company over 1,200 boxes of office space
- Ensured digital document quality by reviewing scans and correcting non-quality scans
- Utilized OCR software to decrease the time required to search within a document

Information Technology Shadowing **Jun 2015 – Aug 2015**
Kaufman Lynn Construction *Boca Raton, FL*

- Performed help desk tasks for employees including replacing computer parts and mitigating software issues
- Assisted the Director of IT in maintaining the company's network and obtaining new technology solutions
- Organized accounting documents by project to increase productivity in the accounting department

SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, MySQL, MongoDB

Frameworks: React, Node.js, Express, NEXT.js, React Native

Tools: Git, VS Code, Linux, Swagger, Postman, JWT, Microsoft Office