

Key Skills

Programming Languages Python, TypeScript, JavaScript, Java, R, Swift, HTML, CSS	Web & AI Technologies Django, Node.js, ReactJS, Next.js, TensorFlow, Tailwind, React Native, Keras, Pandas, Matplotlib	Tools, Databases & More Git, Machine Learning, AI, Computer Vision, Language Processing, UI/UX, API, SCRUM, MongoDB, PostgreSQL
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Technical Experience

- Computer Science Instructional Assistant**, *Eckerd College* 09/2023 – 12/2023
- Delivered tailored tutoring services focused on advanced programming, while utilizing customized study materials to cater to individual learning needs and mentor junior students to foster academic growth.
- Physics Lab Teacher Assistant**, *Eckerd College* 06/2023 – 07/2023
- Facilitated engaging physics experiments and educational activities. Managed instructional materials and assisted in creating lesson plans and demonstrations to make complex scientific concepts more accessible to students.

Technical Projects

- Maxticker**, *TypeScript, React Native, Node.js, MongoDB*
- Demonstrated expertise in mobile app development by creating a sophisticated time-tracking app featuring multiple stopwatches and analytics. Skillfully integrated a subscription-based purchase system, significantly boosting revenue and user engagement.
- Kweeble**, *JavaScript, React Native, Node.js, MongoDB*
- Designed and programmed, and tested a college event platform adopted by two colleges and over 300 students. Enhanced event advertising by integrating detailed information, Google Maps API, and secure user profiles.
- Sentiment Analysis**, *TensorFlow, Python, Natural Language Processing*
- Engineered a high-accuracy BERT-based sentiment analysis model using TensorFlow.
- Glancenote**, *Python, ReactJS, Django, PostgreSQL*
- Designed, programmed an AI assistant utilizing OpenAI's API and custom database integration to provide instant responses, expanding its vocabulary by dynamically adding models from the database.
- Spam Detector**, *TensorFlow, Python, Natural Language Processing*
- Employed deep learning expertise to engineer a spam detection model. This project demonstrates my skill in utilizing intricate text pattern analysis and advanced NLP techniques to distinguish spam from legitimate emails.
- Face Tracking Camera**, *TensorFlow, Python, Machine Learning, Raspberry pi, OpenCV*
- Leveraged machine learning and hardware integration skills to develop a face tracking camera on a Raspberry Pi. Utilized TensorFlow and a Pan-Tilt HAT v3 for efficient real-time facial recognition and movement tracking.
- College Student Directory**, *JavaScript, React.js, Node.js, MongoDB*
- Initiated and successfully led the overhaul of a college directory system, enhancing its functionality with a versatile search feature.

Areas of Expertise

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| • Software Development Lifecycle (SDLC) | • Full-Stack Software Development | • Data Preprocessing |
| • Data Generation & Annotation | • Software Design & Architecture | • Model Architecture |
| • Documentation & Technical Writing | • Software Testing & Quality Assurance | • Agile Methodology |

Education

Recent Courses

PHYS 352 Quantum Physics	CS 480 Machine Learning	CS 310 Computer Architecture	CS 301 Computer Theory
CS 450 Computer Graphics	CS 370 Data Science	CS 221 Data Structures	MATH 234N Differential Equations

Extracurricular Experience

- Collegiate Baseball Player

08/2019 – 06/2023

 - Competed in NCAA and NJCAA baseball, maintaining a .313 batting average with 143 hits, demonstrating teamwork and consistent performance. Balanced athletic and academic commitments, exemplifying discipline and time management.
- Collegiate Choir Ensemble Member

09/2022 – 09/2023

 - Contributed to diverse choir performances, demonstrating teamwork and musical skill, while effectively balancing rigorous academic commitments.
- Career Mentor Program

09/2023 – Present

 - Engaged in Eckerd College's alumni mentorship program, receiving guidance on career development, and professional networking. Facilitated monthly communications with Brandon Cooke, Director of IT Compliance at Raymond James, to gain insights into the transition from academic life to a professional career in technology.

Languages

English, Spanish