Rohan Vij

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OBJECTIVE

Seeking a part-time remote position in data or computer science, to build upon prior internship experience and further develop skills in these fields. A strong analytical learner with experience at developer conferences. Looking to contribute to the success of my team in any way, and gain practical experience in a real-world industry setting.

SKILLS

Programming Languages: Python, JavaScript/Typescript, Java, HTML/CSS
Libraries/Frameworks: TensorFlow/Keras, Pandas, NumPy, Matplotlib, Flask, FastAPI, React.js, Express.js
Tools: Docker, Git, AWS, DigitalOcean, MongoDB, GitHub Actions

EXPERIENCE

UC Davis COSMOS Program
Environmental IoT Researcher   *June 2024 - July 2024*
- Worked with ECE professors and graduate students to research Internet-of-Things platforms for water quality maintenance.
- Developed and prototyped a cloud-enabled, self-sustaining IoT platform that can autonomously run water quality tests and upload the data to a cloud (AWS) dashboard.
- Presented to a cohort of professors and students, tested platform on water bodies in the Davis area.

ENGIE
Sustainable Engineering Intern   *June 2024 - September 2024*
- Developed a platform using unsupervised computer vision on satellite imagery to conduct quick environmental analyses on large outdoor schools or commercial campuses.
- Used large language models to generate PDF reports from environmental analyses, pioneered a sustainability scoring system.
- Presented final project to ENGIE photovoltaic engineers and upper management to be integrated into ENGIE's workflow.

Shiporium
Founder, Engineer, and Architect   *June 2022 - Current*
- Create an online platform using crowdsourced USPS tracking numbers to provide estimated information on how long international packages take to ship.
- Attended the [2023 AI Conference](#) in San Francisco to present the product and receive advice regarding the growth of the application.
- Using React.js; Express.js; MongoDB; DigitalOcean;

Towards Data Science @ [Medium](#)
Content Writer   *June 2022 - Current*
- Collaborate with publication editors.
- Conduct in-depth research on data science topics.
- Develop programs in Matplotlib to graphically represent statistical concepts.

Aviato
Web Development Intern   *June 2022 - January 2023*
- Program frontend screens using React.js based on Figma prototypes and design guidelines.
- Refactor large codebases and use Continuous Integration with linting to maintain code quality.
- Conduct dynamic integration processes to connect the frontend to an AWS API Gateway backend and custom AWS Lambda
- functions.

EDUCATION

Dublin High School   **Dublin, CA**
Grade: 12   *Expected June 2025*
- **4.5/4.0 weighted GPA. | 3.97/4.0 unweighted GPA.**
- **Coursework:** AP Computer Science Principles/Applications, Honors Principles of Engineering, Honors Digital Electronics
- **Activities & Societies:** President of Environmental Technology Club, Board Member of AI Club

CERTIFICATIONS

AWS Certified Cloud Practicioner   **November 2022**
Amazon Web Services Training and Certification   *https://www.credly.com/badges/7420aaeb-3000-4123-8fb2-f703ef75e2ac/*

IT Specialist - Python   **May 2022**
Certiport - A Pearson VUE Business   *https://www.credly.com/badges/cc11f38a-fbf8-43cc-b668-28e4b393fdcb/*

Certified Associate in Python Programming   **December 2020**
OpenEDG Python Institute   *https://verify.openedg.org/?id=mUXG.i33S.Jn94*

PROJECTS

GAEL   **August 2024**
NOAA Code Challenge   *https://github.com/Rohan-Vij/noaa*
- Led a team of four high school students to train a YOLOv7 model on a dataset of aquatic animals, augmented with gamma, grayscale, and hue changes.
- Developed the data augmentations and YOLOv7 training.
- Only public high school team to participate in the challenge.

Politica AI   **January 2024**
Congressional App Challenge   *https://www.politica-ai.tech/*
- Developed a Chrome Extension/web application that uses a fine-tuned GPT model to identify points of bias in articles, provide a historical reliability rating of the source, summarize the article, and provide similar articles that provide different perspectives.
- Developed the backend API, unit tests, and LLM integration of the application.
- Placed 2nd in Congressional District (CA10 - 750k population)

PapyrAI   **August 2020**
HackSharks   *https://devpost.com/software/papyr-ai*
- Developed a newsletter of research papers that summarizes their content and novelly uses GPT as a recommendation algorithm to send more user-specific content.
- Developed the LLM/GPT integration, SMTP networking, web backend, and hosting on DigitalOcean.
- Top 10 finalist out of 470+ participants.

Loconomic Fulcrum   **August 2020**
Bay Area Hacks   *https://devpost.com/software/lgmp*
- Developed an online marketplace and job board connecting farmers, consumers, the unemployed, and students to alleviate food wastage and job issues caused by COVID-19.
- Developed the full-stack integration and hosting, user management system, and food marketplace.
- Placed 1st out of 400 participants.

CreditKonnect   **August 2020**
UniGlobe Hacks   *https://devpost.com/software/fast-approval*
- Developed a platform for rapid loan risk profiling to prioritize small businesses that need financial assets the most.
- Programmed the user authentication system, risk profiling questions, and the loan results screen.
- Placed top 3 out of 200+ participants.

DreamVestor   **August 2020**
FinTech Nations Hackathon   *https://devpost.com/software/dreamvestor*
- Developed an application to help students obtain college loans through the crowdsourcing of educational funds.
- Programmed the student module and database management.

AgriScan   **April 2023**
Los Altos Hacks   *https://devpost.com/software/agriscan*
- Developed a platform for agricultural workers to identify crop disease and associated it with geospatial data to identify areas of increased disease.
- Programmed the website functionality, MongoDB database integration, machine learning integration, and Twilio texting component.