Paolo Pedrigal

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EXPERIENCE

Full Stack Engineer Intern — March 2023 – June 2023
Tayo.One (Start-up) — *San Francisco, CA*
- Collaborated with a start-up engineering team, connecting Filipino-American organizations, businesses, and individuals, including onboarding new members of the engineering team.
- Optimized web application page load time performance by 20% using TypeScript, React, and Next.js, in development of company MVP social platform.
- Communicated effectively to end users for feedback upon early stage product development to better understand user needs and to gain data-driven decision-making.
- Developed RESTful API endpoints using Python's FastAPI, integrated with a PostgreSQL database, and tested with Postman.
- Managed cloud infrastructure on AWS (EC2, VPC, RDS, SSM) for deployment and relational database management.
- Containerized web application with Docker to ensure a consistent environment across development, testing, and production.

Product/Test Engineering Intern — June 2022 – August 2022
Skyworks Solutions, Inc. — *Irvine, CA*
- Implemented Python scripts that extracted key information from raw semiconductor data, contributing to an ETL pipeline.
- Supported product and test engineers by troubleshooting data issues, optimizing analysis workflows, and enhancing data visualization dashboards to streamline insights for semiconductor testing.
- Reported 3 production errors found at the front-end UI of my team's data analytics software.
- Updated code documentation alongside development to meet current standards and practices of my team's code base.
- Effectively communicated with fellow product and test engineers through daily stand-up meetings.

Front End Developer Intern — June 2021 – August 2021
MLiora, LLC (Start-up) — *San José, CA (Remote)*
- Refactored 10+ React components to further modularize existing code base, improving code reusability and reducing development time by 15%, as measured by project deadlines.
- Leveraged Git version control for a cross-functional team in building a prototype website for patients with leg length discrepancy.
- Utilized Sass for CSS preprocessing, simplifying the management and updating of styles, which improved my team's developer experience.
- Executed JavaScript unit tests with Jest to validate functionality and maintain code reliability alongside development.

Data Science Fellow — June 2021 – August 2021
University of California, Santa Barbara — *Santa Barbara, CA (Remote)*
- Conducted data analysis using Python's NumPy and pandas libraries on a dataset of 295,938 environmental records, deriving key insights on multiple bee populations and plant species.
- Developed linear regression models to identify plausible correlations between bee populations and plant species based on different interaction behaviors.
- Trained and tested a K-Nearest Neighbors machine learning model to classify plant interactions by bee family, achieving 95.6% accuracy.
- Presented findings of research utilizing heat maps, line graphs, and geospatial plot to technical and non-technical audiences.

Data Science Mentee — April 2021 – June 2021
Stanford Biomedical Data Science Program — *Palo Alto, CA*
- Reinforced data science techniques by experimenting with real-world datasets in Kaggle, utilizing pandas, NumPy, and Matplotlib libraries in Python and Jupyter Notebook.
- Gained theoretical knowledge in data science, such as machine learning and statistics, through 1:1 meetings with my mentor and learning alongside fellow mentees.
- Shadowed my mentor in their PhD research and studies in medical genetics.

RELEVANT PROJECTS

Social Media Cards Mobile App | *React Native, Expo, TypeScript, Redux, PostgreSQL, Supabase, Figma*
- Built a cross-platform mobile application that converts social messaging to UI playing cards.
- Configured user authentication, database management, and storage with Supabase.
- Forked and modified an open source npm package for the card animations to speed development and improve the existing UI.
- Leveraged Expo's ecosystem, utilizing features like Camera, Image Picker, and Media Library to deliver seamless user interactions.

Full Stack Workout Logger | *React, Next.js, TypeScript, Tailwind, Python, FastAPI, PostgreSQL, Docker, AWS, Vercel*
- Created a website for programmers that exercise to track workout sessions in a shell-based UI.
- Built authentication using NextAuth.js, OAuth, reCAPTCHA, and custom JWT strategies to enhance user privacy.
- Developed RESTful API routes with Python's FastAPI for type validation, automatic documentation, and fast performance.
- Utilized AWS VPC for secure deployment of backend server in a private subnet with a reverse proxy (Nginx) at a bastion host.

EDUCATION

University of California, Irvine — Irvine, CA
Bachelor of Science, Computer Science — *June 2023*

TECHNICAL SKILLS

Programming Languages: TypeScript, Python, C/C++, Java, SQL, HTML/CSS
Libraries/Frameworks: React Native (Expo), React, Next.js, pandas, NumPy, Matplotlib, sci-kit learn, NLTK
Backend/Databases: PostgreSQL, FastAPI, Node.js, Express.js, AWS, Firebase, Supabase
Tools/Testing: Git, Docker, Jupyter Notebook, Postman, Jest, Figma, Jira
Environments: Linux Ubuntu, WSL/WSL2