

Peter Son

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EDUCATION

B.S. in Computer Science, University of California - Irvine GPA: 3.74/4.0 Sept 2019 - June 2023

EXPERIENCE

Full Stack Engineer & AI Intern, OOTify - Irvine, CA Sept 2022 - October 2023

- Led a cross-functional team of 5 developers in deploying the first version of a mobile web application using Angular, providing users with a mental health resource hub with check-ins for personalized support.
- Transferred the entire application from Angular and Google Firebase to Django and MongoDB, enhancing scalability and features.
- Created and integrated a robust recommendation engine using mental health data to provide personalized resources.
- Implemented Agile methodologies, ensuring collaborative, iterative development for timely project milestones.

Coding Tutor, Coding Minds Academy - Irvine, CA Aug 2022 - April 2023

- Instructed students in the fundamentals of linear data structures, including their implementation and utilization in C++, Java, and Python.
- Guided and mentored students in game development projects using Unity and Roblox Studio, fostering their creativity and problem-solving skills.

Teaching Assistant Tutor, University of California - Irvine, CA Sept 2022 - March 2023

- Delivered instruction on both linear and non-linear data structures, as well as essential algorithms such as backtracking, searching, sorting, and hashing. Facilitated hands-on exercises and provided guidance for effective implementation on students' projects.
- Utilized my expertise in C++ to develop practical implementations and provide in-depth teaching support for course materials, ensuring students' comprehension and mastery of concepts.

PROJECTS

I'm Feeling Yelpy Feb 2024

- Developed and deployed a dynamic AWS Elastic Beanstalk web application, integrating Yelp Fusion API for real-time business data access.
- Leveraged VPC, RDS, and Secrets Manager for secure and scalable infrastructure, ensuring reliable database management and credential storage.
- Designed an intuitive user interface, including customizable filters, dynamic maps, and secure user authentication.

WordPress AWS Website Oct 2023

- Orchestrated end-to-end deployment of WordPress on AWS, including VPC setup, Nat Gateways, and Security Groups.
- Established a scalable and secure architecture with RDS for database management, Elastic File System for shared storage, and an Application Load Balancer.
- Successfully integrated domain registration through Route 53, SSL certificate management, and implemented high availability with Auto Scaling.

Runkeeper Tweet Report Jan 2023

- Analyzed and summarized RunKeeper Tweets using JavaScript and TypeScript, categorizing tweets (e.g., completed events, achievements) and extracting essential tweet information.
- Utilized Twitter API to generate a dynamic webpage report, leveraging JQuery to update HTML spans with statistical insights on tweet categories and user-generated content presence.
- Employed TypeScript parsers to extract tweet dates and user-written text, enabling the creation of an interactive search interface for researchers to explore RunKeeper activities.

SKILLS

Languages Python, C, C++, C#, Java, Javascript, Angular, Node.js, ReactJS, MySQL, HTML/CSS, Ionic, Django

Tools CAD Modeling, Arduino, Raspberry Pi, Microsoft Office, Git, Numpy, Firebase, MongoDB, AWS

Coursework Operating Systems, Data Structures & Algorithms, Concepts of Programming Languages, Machine Learning & Data-Mining, Digital Systems, Data Management, Embedded Software