Jonathan Cho

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EDUCATION

University of Washington Aug-2020 - August 2023

Bachelor of Arts in Computer Science & Systems

- GPA: 3.67
    - Coursework: Data Structures, Design & Analysis of Algorithms, Programming Language Concepts, Operating Systems, Computer Networks, Computer Architecture, and Database Systems Design

TECHNICAL SKILLS

JavaScript | TypeScript | React | Next.js | Java | Python | C | C++ | TensorFlow | PyTorch | SQL | MongoDB | Git/GitHub

EXPERIENCE/PROJECTS

AI Icon Generator (SaaS) - View Project
(React, Next.js, TypeScript, OpenAI DALL-E-2 API, Prisma, PostgreSQL, Stripe) - Github
VectoAI

- Led the creation of a web application leveraging OpenAI's DALL-E-2 API for dynamic icon generation, aimed at users needing custom icons. Created working with a small team of two.
- Integrated a subscription-based model using Stripe, streamlining billing processes and enhancing transaction security.
- Successfully optimized API integration to support real-time icon generation, improving response times by 25%..

Property Rental Marketplace - View Project
(Next.js, React, Tailwind CSS, Prisma, MongoDB, NextAuth) - Github
AeroLodge

- Engineered a scalable full-stack rental marketplace using Next.js for sophisticated routing, integrating responsive UIs with React and Tailwind CSS.
- Handled database operations with Prisma and MongoDB, enhancing property and booking management functionalities by 30% through optimized queries and data indexing.

Payment API
(.NET Core, C#, PostgreSQL, Docker) - Github
PaymentAPI

- Developed and containerized a RESTful API to manage payment details securely, using Docker and PostgreSQL.
- Enhanced deployment efficiency and environmental consistency across development, testing, and production.
- Deployed and tested the API functionality using automated tests and curl requests.

Machine Learning Stock Trading Bot
(Python, PyTorch) - Github
MLTrader

- Engineered a sophisticated trading algorithm using Python, integrated with real-time and historical market data from the Alpaca trading platform, to conduct algorithmic trading.
- Implemented sentiment analysis with PyTorch, improving trading decision accuracy by 15% through dynamic strategy adjustments based on financial news sentiment.
- Developed a dynamic position sizing algorithm, enhancing capital efficiency and reducing financial risk.

LEADERSHIP

HuSCII Coding Club **University of Washington**

Officer

- Coordinate and supervise the weekly meetings and events for the club.
- Managed outreach efforts, securing quarterly guest appearances by alumni to provide professional insights and experiences in the technology sector to club members.