

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

- **Languages:** JavaScript, TypeScript, Python, Java, C, C++
- **Libraries/Frameworks:** React, Next.js, .NET Core
- **Technologies:** Docker, TensorFlow, PyTorch, Prisma, NextAuth
- **Developer Tools:** SQL, PostgreSQL, MongoDB, Docker, CI/CD (GitHub Actions), Git/GitHub, Postman

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
- 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.