

# Jonathan Cho

(253) 347-6077 | [Jonathanco.Jc@gmail.com](mailto:Jonathanco.Jc@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | Olympia, WA

## 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 | Angular | Java | Python | C | C++ | C# | HTML | CSS | 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, which streamlined billing processes and improved transaction security.
- Successfully handled API integration to support real-time icon generation, optimizing 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 14 for sophisticated routing, integrating responsive UIs crafted with React and Tailwind CSS, while handling database operations with Prisma and MongoDB.
- Implemented comprehensive property and booking management functionalities, improving the platform's operation efficiency by 30% through optimized queries and data indexing.

### Payment API

(.NET Core, C#, PostgreSQL, Docker) - [Github](#)

*PaymentAPI*

- Developed and containerized a RESTful API using Docker and PostgreSQL to manage payment details securely, enhancing deployment efficiency and environmental consistency across development, testing, and production.
- Implemented data management allowing users to add, retrieve, update, and delete payment methods securely.
- Deployed the API on a local development server and tested its 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, enhancing trading decision accuracy by 15% by dynamically adjusting strategies based on the sentiment of financial news.
- Developed and tested a dynamic position sizing algorithm that adjusts the investment amount based on current market conditions and predefined risk parameters, improving 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.
- Initiate and manage outreach efforts, securing quarterly guest appearances by alumni to provide professional insights and experiences in the technology sector to club members.