

# Joshua Yin

Student, Programmer, Open Source Developer

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## EDUCATION

**University of Washington** | B.S. in Computer Science

Sep 2023-Jun 2025

Cumulative GPA: 4.0/4.0

**Interlake Senior High School** | IB Diploma Alumni, Programming Club Officer

Sep 2019-Jun 2023

GPA: 4.0/4.0, ACT: 35

IB Diploma (score of 43/45), AP Scholar With Distinction (5 on 15 APs), National Merit Finalist

## EXPERIENCE

**OpenEXA** | Software Intern

Dec 2022-Jun 2023

- Built a decentralized application (DApp) to oversee company token management:
  - Wrote a frontend token management client using React/Next.js
  - Integrated web3.js libraries to communicate with the smart contract
  - Used MongoDB to implement an efficient and scalable user data store
  - Containerized the application for seamless deployment on the Google Cloud Platform
- Developed ERC-20 compliant smart contracts in Solidity
- Successfully deployed a variety of tokens onto the Ethereum blockchain

**Bond Intelligence** | Lead Intern

Aug 2022-Jun 2023

- Worked closely with CEO to manage a team of 10 interns working on a data visualization project
- Utilized Google Data Studio and SQL to construct data models for detailed analysis of trends in the bond market and identify high-performing bonds

**ComplexityZero** | Educational Content Creator

Oct 2020-Jun 2021

- Scripted, voiced, edited, and produced a series of videos on the theory behind computer science algorithms and their applications in competitive programming (prefix-sums, graphs, etc.)

## PROJECTS

**Wake and Push - Winner of HackPNW Winter '23** | Python, MediaPipe

- Fitness-oriented alarm clock that motivates users to start their day with physical activity by requiring them to perform pushups to silence the alarm
- Uses MediaPipe Pose Landmarker model to analyze pushup form and count repetitions

**Personal Website/Blog** | React/Next.js, Tailwind CSS, GraphQL

I post technical articles and write about things that interest me

**Open Source Contributions** | [GitHub](#)

More than 100 PRs to various developer tools, ranging from Neovim plugins to Rust CLI programs

## SKILLS

### Programming

- Data Structures and Algorithms
- Java (4+ years) - Object-Oriented Programming, Polymorphism/Encapsulation, JUnit
- C/C++ (2+ years) - STL, Pointers, Templates, File I/O
- React.js/Next.js, JavaScript/TypeScript, Lua, Python, Rust, Solidity, SQL, HTML, CSS
- Other - React.js/Next.js/Node.js, MongoDB, Google Cloud Platform

### Tools

- Scripting (Bash, Python), git, GitHub Actions, CI/CD, Docker, Make, Linux/Unix
- Vim, Tmux, Zsh,  $\LaTeX$ , Visual Studio Code, IntelliJ IDEA

## AWARDS

**Best Overall** | [HackPNW](#)

Feb 2023

Led my team to win the 2023 HackPNW Winter '23 hackathon held at Microsoft Reactor

**Gold Division** | USA Computing Olympiad

2022

Competed in the Gold Division of the USA Computing Olympiad, comprising roughly 500 pre-collegiate students

**2x AIME Qualifier** | Mathematical Association of America

2021, 2022

Roughly the top 2.5-5% of participants in the AMC 10/12 take this exam

## CERTIFICATIONS

**Machine Learning Specialization** | Coursera

Aug 2022

Supervised Learning, Unsupervised learning, Recommender Systems, Reinforcement Learning