

# Vladimir Trifonov

✉ [vova.trifonov@hotmail.com](mailto:vova.trifonov@hotmail.com) | [in](#) [LinkedIn](#) | [G](#) [GitHub](#) | [P](#) [Redmond, WA, USA](#)

## EDUCATION

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### University of Washington

*B.S. in Computer Science; GPA: 3.82/4.00*

Seattle, Washington

*Sep 2023 – Aug 2025*

**Selected Coursework:** Machine Learning, Compiler Construction, Quantum Computation

## SKILLS

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**Languages:** Go, Java, C, C++, JavaScript, TypeScript, Ocaml, x86\_64, SQL

**Technologies:** Linux, Docker, AWS, React.js, Git

**Methodologies:** OOP, Functional Programming, Procedural Programming

## EXPERIENCE

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### Paladin Cloud

*Software Engineering Intern*

Bellevue, WA

*Dec 2024 – Feb 2025, Part-Time*

- Working as backend engineering intern for startup focusing on SaaS security monitoring for cloud deployments
- Refactoring Go code in AWS lambda functions for transition to v2 of product
- Open source work (@vovapaladin and @Vladimirtrif): [GitHub](#)

### Paul G. Allen, UW

*CSE Teaching Assistant*

Seattle, WA

*Jun 2025 – Aug 2025*

- Teaching assistant for the Programming Languages course, CSE341

### Big Dawg App, Husky Coding Project

*Software Engineer*

Seattle, WA

*Sep 2024 – Present, Part-Time*

- Designing and implementing mobile workout logging app
- Working on database and backend
- Cross-platform, written in typescript using Expo (React Native Framework)
- [GitHub](#)

### Team 949z, Vex VRC

*Software and Robotics Engineer*

Sammamish, WA

*Oct 2021 – May 2023*

- Built robot and programmed it in C++ for each competitive Vex VRC season
- Programmed autonomous and manual control modes
- Placed top 40 in the Vex Worlds Championship 2022, Semifinals at State 2023
- 21-22 Season: [GitHub](#) | 22-23 Season: [GitHub](#)

## PROJECTS

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### MiniJava x86 Compiler | [GitHub](#)

- Implemented a Minijava (subset of Java) to x86\_64 compiler
- Features static type checking and implementation of object oriented programming in x86 with polymorphism and method overriding
- Written in Java with CUP and JFlex

### Trefoil Programming Language | [GitHub](#)

- Implemented a functional, LISP-like, dynamically typed, programming language that is interpreted in Ocaml
- Features first class functions, function closures, partially applied functions (currying), and pattern matching

### AI Pneumonia Diagnosis | [Colab](#)

- Trained an AI Pneumonia diagnosis model in Google Colab with Python
- This neural network project was made for the team project for the Inspirit AI Scholars Program

### Dungeon Raider | [GitHub](#)

- Developed a side-scrolling browser game from scratch written in vanilla javascript and html
- Created for FBLA Computer Game and Simulation event. Presented at state level in Washington (WAFBLA)