SUMMARY OF QUALIFICATIONS

- Proficient in Python, Java, Lean; working knowledge of C, SQL, Bash.
- Strong **software engineering** foundation from coursework in **data structures**, **algorithms**, **databases**, and **machine learning**.
- Experience building end-to-end projects: from **formal methods and proofs (Lean)** to **ML models in PyTorch** and **prototype software systems**.
- Demonstrated **collaboration**, **leadership**, **and communication** through team projects, research contributions, and directing extracurricular organizations.

EDUCATION

University of Washington | Seattle, WA

B.S., Electrical and Computer Engineering (ECE)

Expected June 2026

 Data Structures and Algorithms, Intro to Database Systems, Digital Systems, Machine Learning for Signal Processing.

EE 443: Machine Learning for Signal Processing Applications (Grade: 3.8)

Fall Quarter 2025

- Projects in **PyTorch**:
 - Built **CNNs** for object detection and video tracking.
 - Implemented diffusion models for image and video generation.

PROJECTS

Improv Name Game (iOS App) - Swift, UI, Xcode

March 2025 - Present

- Designed and developed a **SwiftUI-based iOS app** that helps improvisers practice and memorize their scene partners' character names.
- Built an interactive flashcard interface using LazyVGrid, custom ViewBuilder sheets, and rotation3DEffect animations for card flipping.
- Implemented state management with @State and @Binding to dynamically track user selections and scene progress.
- Integrated random name generation, multi-view navigation, and adaptive UI for varied device sizes.
- Emphasized UX design: smooth transitions, intuitive flow, and contextual help overlay for first-time users.

RELEVANT EXPERIENCE

Undergraduate Researcher - Lean Research Group | UW

March 2025 - Present

- Authored annotated proofs for use in future UW course material. Collaborated with faculty to integrate
 work into a <u>published online book</u>.
- Developed an automated DFS-based theorem proving system using Python and Lean. Currently researching RL for automatic theorem proving.

Software/Systems Intern - nLIGHT | Camas, WA

July 2023 - Sep 2023

- Programmed and calibrated prototype LiDAR cameras in Python, LabVIEW, and Linux.
- Delivered four functional prototypes used in investor presentations, directly supporting product strategy.
- Increased department efficiency by improving the camera construction documentation.

Electrical Engineering Intern – Korry Electronics Co | Everett, WA

June 2024 - September 2024

- Resolved 100+ engineering problem reports by building test circuits and debugging designs.
- Utilized Simetrix, PADs, and Xpedition, and communicated with many departments (engineering, manufacturing, purchasing, etc.) to gather information to close out the problem reports.
- Partnered with cross-functional teams to improve internal documentation.