LUKE KUSTRA

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EDUCATION

UNIVERSITY OF WASHINGTON – Bothell, WA. 3.68 GPA 09/2024 to 03/2027 (expected)
Bachelor of Science in Computer Science and Software Engineering

SKILLS

Programming Languages: Python, Java, C++, C#, C, JavaScript, Bash, SQL, TypeScript, Kotlin, Swift, Go
Tools/Technologies: Git, Linux/Unix, PyTorch, Pandas, MySQL, Matplotlib, Docker, React.js, Kubernetes TensorFlow, GitHub, Azure DevOps, AWS, PostgreSQL, Tableau, Node.js, SQLite, ROS
Core Skills / Concepts: Machine Learning, Web Development, Version Control, CI/CD, Data Preprocessing Object- Oriented Programming, Cloud Computing, Data Structures, Windows OS

WORK HISTORY

Software Engineer Intern – Dashbeast Inc. 10/2025 to Present

- Assisted in developing a workout assistance app that helps users track workout reps and weight daily
- Developed a 1D CNN ML algorithm that predicts the strength workout the user is performing using **PyTorch**
- Accomplished back-end development tickets in **C#** organized in **Azure DevOps** in an Agile environment

Creative Lead - University of Washington Startup Club 06/2025 to Present

- Lead a team of software developers to create front-end projects for different product ideas
- Utilize **React** and **Typescript** to develop modular UI designs that provide a proper aesthetic
- Interviewed and hired capable software developers based on their experiences and personalities
- Created course scheduler for UW Bothell students with 50+ users that improved on previous confusing UI

A.I Software Developer - University of Washington Research Team 02/2025 to 09/2025

- Implemented machine learning algorithms to driverless ATV to avoid obstacles and navigate to a location
- Utilized technologies such as **PyTorch** and the KITTI database to supply algorithm
- Skills utilized include **C++**, **Python**, **Linux virtual machine**, and close coordination with members of other disciplines
- Implemented object detection software on a LiDAR sensor to perform certain tasks such as stopping and turning

PROJECTS

Workout Predictor 10/2025 to 01/2026

- Created 3 ML models that predicts what exercise a user is performing based on acceleration and gyroscopic data
- ML models include Neural Networking using **Pytorch**, Logistic Regression, and Gradient Boosting
- Performed thorough testing of all 3 models to determine which model was most appropriate for the task
- Learned the development process of Neural Networks, Logistic Regression, and Gradient Boosting ML models
- Gained experience in data loading from CSV files

Mock University Database 09/2025 to 12/2025

- Utilized **PostgreSQL** to create a mock database for the University of Washington: Bothell
- Designed and implemented backend logic handling 400+ courses and 260+ professors with dynamic data retrieval
- Used **JavaScript** to scrape real data from University of Washington to create **SQL** insertions
- Learned how to perform complex queries such as nested queries and JOIN queries
- Used **React** to create an interactable front-end design for users