

ALEXANDER LEONIDA

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Education

Whitworth University

B.S. in Computer Science & Mathematics

Spokane, WA

Expected May 2027

Professional Experience

Olive Tree Bible

Software Engineering Intern

Spokane, WA

May 2025 – Present

- Modernized iOS app for 5M+ active monthly users by refactoring 50,000 lines of Objective C to Swift over a SQLite database while implementing beta iOS26 speech-to-text frameworks for a new real-time sermon transcription feature
- Drove \$10,000 in company sales by shipping iOS screen widget code evaluated through A/B testing to improve mobile app navigation, while also completing 10 customer-driven tickets per week which directly addressed user feedback

Avista

Software Engineering Intern

Spokane, WA

May 2025 – Present

- Identified and funded 700 small companies by building a fullstack Golang application with RESTful API's leveraging a Postgres database on AWS RDS & Lightsail to support historically marginalized communities in the Inland Northwest
- Reduced latency by 80% with cached queries and client-side pagination in a TypeScript/React admin dashboard used by 15+ staff to review 1,000+ business applications while managing access via session-based login with cookies

Columbia University

Software Engineering Intern - Remote

New York City, New York

Apr 2025 – Jun 2025

- Elevated decision-making speed 10× for a 7-person physics team by developing an Azure .NET C# dashboard that processed and visualized fluid mechanics data from physical meteorological stations via an Azure MySQL data pipeline
- Led a team of 4, including two high school interns, to automate data cleaning in the meteorological ETL pipeline, mentoring them through coding and workflow design, and enabling the team to contribute meaningful production code

Who We Play For

Software Engineering Intern

Melbourne, FL

Jun 2023 – Oct 2024

- Saved development & business teams 10 hrs/week by creating an interactive Python Slack bot that enabled users to upload medical files, which, after processing, sent templated emails assessing the probability of sudden cardiac arrest
- Achieved 40% faster deployment cycle for new features and updates by containerizing Slack bot with Docker and streamlining deployment to company's AWS EKS (Kubernetes) cluster

VisSidus Technologies

AI / ML Intern

Kihei, HI

Jun 2021 – Jun 2022

- Enhanced autonomous decision-making in drone swarms by 40% by training an LSTM RNN with PyTorch for OODA Loop modeling, integrating C++ OpenCV for computer vision and Azure Blob storage for StarCraft II simulations
- Identified top 3 causes of preventable spacecraft docking crashes by applying the OODA-based LSTM model to AI-driven event-based vision analysis; co-authored a NASA-funded AIAA 2021 paper on Human-Machine Collaborative Systems

Technical Projects

Whitworth STEM Placement Exams

- Improved placement accuracy by 20%, developing & deploying online Math/Chemistry exams to 600+ students/year using Flask, Typescript, and Whitworth's cloud service, easing class schedule recommendation for university advisors

Predict a Ball - A Continuously Training Neural Network

Code & Demo

- Trained a PyTorch LSTM neural network on 1M+ OpenCV-tracked coordinates to predict 5 seconds of future ball motion in any given simulation, forming the foundation of a continuously learning AI model through updating model storage
- Achieved 99% prediction accuracy for LSTM model & added linear regression visualization option for result comparison

Leadership

Community Manager

Sep. 2024 - Present

- Led a mentoring program to provide guidance, support, and networking opportunities among 20 local high school robotics teams interested in STEM, facilitating knowledge sharing and professional growth in the computer science industry

Chess Club President

Mar. 2024 - Present

- Increased club member count by 20, and strengthened average member ELO score by 500 points, organizing instructive weekly chess meetings and hosting annual tournaments, promoting strategic thinking and a strong sense of community

Technical Skills

Languages: Python, C#, Java, C++, Objective C, Swift, TypeScript, JavaScript, SQL

Technologies: Git, AWS, Azure, Docker, Kubernetes, ReactJS, NodeJS, Flask, PyTorch, Tensorflow, Keras