Nicholas Jordan

253-325-2891 | nikjordan525@gmail.com | linkedin.com/in/nicholasjordanbe | github.com/NickJordan-BE

Education

University of Washington Tacoma, WA
Bachelor of Science in Computer Science *Sep. 2023 – Jan. 2027*

Experience

Software Engineer Intern Mar. 2025 – Present
Insights Emerge *Tacoma, WA*

- Implementing event-driven API system for LMS platform designed to streamline educational content delivery and analytics based on user insight.
- Develop testable website prototypes, derived from analyzing 20 user interviews using assumptions methodology.
- Conduct 10+ user interviews with prototypes resulting in a 50% increase of feedback across 20 iterations.
- Implement a React app with responsive UI/UX design leading to a 50% increase in user tasks during user testing.

Undergraduate Teaching Assistant Mar. 2025 – Present
University of Washington *Tacoma, WA*

- Lead collaborative programming labs in Python with 30+ students leading to a 100% completion rate and 50% increase in material comprehension through engaging problems.
- Improved overall grades by 15% through structured office hours and real-time feedback on projects.

Undergraduate Research Assistant Feb. 2025 – Present
University of Washington *Tacoma, WA*

- Assist with optimizing the Kyber post-quantum cryptography algorithm for low-resource UAVs using Python's parallel processing/multi-threading, NumPy vectorization for array-based computation, and caching.
- Reduced multiplication complexity of Kyber algorithm from $O(n^2)$ to $O(n \log n)$ using the Number-Theoretic Transform and overall processing time by 35%.

Founder & Full-Stack Lead Developer Sep. 2024 – Mar. 2025
TechStartUpClub *Tacoma, WA*

- Directed teams of 6+ members for 3 full-stack projects overseeing development, integration, and testing.
- Designed and implemented microservice system architecture supporting 6 microservices with Docker, enabling scalability and user growth by 200%.
- Spearheaded the 2nd-largest RSO at UWT within 2 quarters, while implementing a mentorship pipeline resulting in 5 members landing internships.

Projects

UHealth | *Python, TensorFlow, Pandas, Flask* May. 2025 – Present

- Placed 2nd in South Puget Sound's largest hackathon using our full-stack application with CRUD operations for patient and doctor data with a 92% accurate binary classification CNN model.
- Training and improving model to predict 14 classifications of abnormalities from chest X-rays with 95% accuracy.
- Cleaning, filtering, and augmenting 112k-image dataset for training and testing.

Redis Server | *Golang, Redis, Docker, Kubernetes* Mar. 2025 – May. 2025

- Built in-memory database server, supporting 30+ Redis commands including transactions, real-time data streams, and multiple concurrent connections using goroutines and custom data structures.
- Implemented AOF database persistence with 99.99% durability and sub-0.1s write times.
- Deployed and containerized with Docker, explored Kubernetes deployment with HPA for dynamic scaling.

MNIST CNN Model | *Python, NumPy* Mar. 2025 – Apr. 2025

- Built a convolutional neural network (CNN) from scratch in NumPy, implementing backpropagation and custom convolution, pooling, and softmax layers.
- Achieved 97.5% accuracy on 2,000-image subset of the MNIST dataset in just 3 training epochs.

Technical Skills

Languages: Java, Python, Golang, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, Next.js, Spring Boot
Developer Tools: Git, Docker, Kubernetes, Firebase, AWS Cloud Services, Redis, Google Colab
Libraries: Pandas, NumPy, Matplotlib, JWT, Axios, TensorFlow, PyTorch, Scikit-learn, Express