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.
- Improving 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.
- Reducing multiplication complexity of Kyber algorithm from $O(n^2)$ to $O(n \, logn)$ 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 full-stack development, integration, and testing.
- Designed and implemented micro-service system architecture supporting 6 micro-services 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

TypeSheet | *PostgresSQL, TypeScript, React, Python, AWS, Kubernetes, Docker* — Apr. 2025 – Present
- Creating LLM-based assignment generator using Sci-Kit Learn for SET, reducing facilitator prep time by 50%.
- Reducing page load time by 90% through effective back-end querying and RESTful APIs with optimized caching.
- Creating automated data pipeline to convert 10+ years of PDF data in S3 buckets into organized schema for PostgreSQL utilizing AWS lambda.

Redis Server | *Golang, Redis, Docker* — 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, NextJS, Springboot
Developer Tools: Git, Docker, Kubernetes, Firebase, AWS Cloud Services (EC2, Lambda, S3, SageMaker), Redis
Libraries: Pandas, NumPy, Matplotlib, JWT, Axios, TensorFlow, PyTorch, Scikit-Learn, Express