Nathanael Simon

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Education

University of Washington Seattle, WA

Bachelor of Science in Computer Science, Minor in Nutrition *Sep. 2024 – May 2027*

- GPA: 3.5, Deans List
- Relevant Coursework: Software Design & Implementation, Data Structures & Parallelism, Data Structures & Algorithms, Foundations of Logical Computing, Linear Algebra, iOS Development

Experience

Software Engineering Intern June 2025 – Sep. 2025

GoDaddy *Kirkland, WA*

- Built scalable client libraries using Python and Java to collect metrics from 10,000+ hosted GoDaddy sites across 12 Grafana/Kibana dashboards
- Automated data aggregation pipelines for internal reporting workflows, reducing manual collection time by 52%
- Implemented CI/CD (continuous integration and deployment workflows) using GitHub Actions to ingest 1,000+ records weekly into ServiceNow
- Developed API-based software modules to standardize 500+ security signatures, reducing manual effort by 30%
- Worked with cross-functional engineering teams to test, troubleshoot, and deploy solutions while managing assigned tasks end-to-end

Full-Stack Developer & Project Lead Oct. 2025 – Present

Alpha Kappa Psi *Seattle, WA*

- Designed and implemented a Java-based internal software application to support organizational operations, centralizing data for 300+ alumni
- Constructed RESTful APIs supporting create, update, search, and bulk import operations used by 10+ officers
- Developed React interfaces enabling officers to filter and update alumni data in under 5 seconds, reducing manual lookup time by 60%
- Led a cross-functional team of 6 developers, marketers, and designers through Agile workflows

Machine Learning Intern June 2024 – Sep. 2024

Vieu *Seattle, WA*

- Trained a company canonicalization model (Python, TensorFlow, OpenAI API) to match 300+ organizations referenced across 4,000+ case studies, LinkedIn posts, and news articles
- Verified system accuracy by executing repeatable test procedures, achieving 98% match accuracy across 10+ iterations
- Architected a custom web-scraper using BeautifulSoup to extract/normalize data across 1,000+ LinkedIn Posts

Projects

TrainBetter | *Python, YOLO, OpenCV, NumPy, Git, GitHub* Nov. 2025 – Present

- Building a pose analysis pipeline that extracts joint landmarks from sports videos using computer vision
- Computing 10+ biomechanical metrics (knee/hip angle, approach angle, foot stability) across 1,000+ video frames to evaluate form and technique
- Defining a JSON-based schema to summarize movement patterns into 50+ structured features for downstream large language model analysis

YouTube Music Playlist Migrator | *Python, Flask, HTML, CSS, GCP* Sep. 2025 – Nov. 2025

- Achieved end-to-end playlist migration from YT Music to Spotify using batch processing for playlists with 200+ tracks
- Integrated Spotify and Google APIs to harness existing systems, dropping latency to under 120ms
- Sustained 95% track accuracy using automatic track querying and album/artist matching

Skills

Languages: Python, Java, HTML, CSS, JavaScript, TypeScript, Kotlin, Swift
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Developer Tools: Git, GitHub, Agile, Docker, Google Cloud Platform, VS Code, Microsoft Business Suite
Libraries: pandas, NumPy, TensorFlow, OpenCV