Megan Pereira

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EDUCATION

University of Washington - Seattle   **Seattle, WA**
Bachelor of Science in Computer Science & Economics   *Expected: Jun. 2027*
Related Coursework: Data Structures & Algorithms, Software Design and Implementation, Artificial
Intelligence, Machine Learning, Systems Programming, Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, C++, JavaScript, HTML/CSS
Frameworks/Tools: React, Node.js, Flask, Docker, AWS EC2, Git, Google Cloud Build
Core Competencies: Full-Stack Development, API Design, CI/CD Automation, OOP, Software Testing (JUnit)

EXPERIENCE

Husky Coding Project, University of Washington   **Seattle, WA**
Project Technical Lead   *Sep. 2025 – Present*
- Spearheading a 6-member team to design a React Native + Express fitness app, boosting user retention by 35% through RPG-style progression and community goal-tracking.
- Overseeing full stack integration, reviewing team pull requests, and creating design documentation in line with industry-standard workflows.
- Driving project milestones by organizing weekly sprint reviews, delegating tasks, and facilitating communication between subteams and leadership for on-time feature delivery.

Synaptech, University of Washington   **Seattle, WA**
Software Developer   *Sep. 2025 – Present*
- Developing a desktop focus-timer app in Python that adapts work/break cycles via real-time EEG (Muse) data, enhancing user focus duration by 40%.
- Collaborating with research team to analyze 500+ biometric sessions, generating models that correlate neural signals with productivity.
- Testing, debugging, and refining early app versions with version-controlled releases.

OpenExa   **Bellevue, WA**
Software Engineer Intern   *Aug. 2023 – Jun. 2024*
- Led 5-member team to build a full-stack financial dashboard using Next.js and Kanban, improving asset management efficiency.
- Integrated Google Gemini API on Bitcoin ETF data, improving SQL query efficiency by 40% using BigQuery.
- Deployed CI/CD pipelines via Google Cloud Build, shortening release cycles from 10 days to 3 days

EMiT Labs, University of Washington   **Seattle, WA**
Research Intern   *Sep. 2023 – Jun. 2024*
- Engineered a C++/Python optimization toolchain for mixed-signal IC layout automation, accelerating design convergence by 80% using the Adam Optimizer.
- Enhanced security by integrating encrypted PDK support, ensuring compliance with data-protection standards.
- Maintained MAGICAL repository for 10+ researchers, reducing reported bugs by 60% through refactoring and CI testing.

PROJECT

MarketBeacon   React, Express, Finnhub API
- Developed a full-stack stock-alert system achieving sub-5s latency and 98% uptime
- Optimized asynchronous REST endpoints to support 500+ concurrent requests with minimal overhead.
- Implemented observability using Prometheus/Grafana for performance monitoring and the ELK stack for centralized logging, enabling rapid diagnosis of production incidents.
- Implemented TypeScript front-end validation and unit tests (Jest), increasing code coverage from 70% to 95%.
- Deployed to AWS EC2 using Docker + CI/CD for scalable cloud deployment and end-to-end ownership.