Megan Pereira

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EDUCATION

University of Washington - Seattle — Seattle, WA
B.Sc. in Computer Science, B.Sc. in Economics — *Sep. 2024 – Present*

Interlake High School — Bellevue, WA
International Baccalaureate Program — *Sep. 2020 – Jun. 2024*

EXPERIENCE

Software Engineer Intern — Aug. 2023 – Jun. 2024
OpenExa — *Seattle, WA*
- Led team of 5 interns to design a full-stack Next.js web application that allowed clients to manage financial assets through a responsive Kanban system.
- Using Google Gemini API to cluster Bitcoin ETF data based on historical performance with K-Means algorithm, utilizing BigQuery to optimize SQL processing by 40%.
- Containerized application with Docker and integrated CI/CD pipeline with Google Cloud Build, reducing deploment times by 30%.

Research Intern — Sep. 2023 – Jun. 2024
University of Washington, EMiT Labs — *Seattle, WA*
- Developed a C++ and Python toolchain to automate placement and routing of mixed-signals integrated circuits using Adam Optimizer.
- Extended toolchain functionality to work for encrypted PDKs by providing an interface for users to supply custom circuit data, optimizing proprietary circuit generation by 80%.

Coding Instructor — May 2024 – Oct. 2024
Coding with Kids — *Seattle, WA*
- Taught Elementary and Middle School students how to code in python, robotics, scratch.
- Created curriculum that was implemented during classes.
- Mentored students on skills to be successful in thinking algorithmically.

Camp Founder — Jun. 2023 – Sep. 2024
Bellevue ByteCamp — *Bellevue, WA*
- Founded camp that taught 50 middle school students python and algorithmic thinking.
- Wrote and taught curriculum covering a range of introductory topics in Python.
- Planned, promoted, and ran each camp session.

PROJECTS

BookSwap | *React* — Sept.2022 – June. 2023
- Led team of 4 members to design a free full-stack app that streamlined the process of exchanging books and textbooks around the nation.
- Designed a fully customizable layout system with react-dnd.
- Visualized GitHub data to show collaboration
- Conducted market research to develop front end

TECHNICAL SKILLS

Languages: Java, Python, HTML/CSS, R
Frameworks: React.js, Express.js, Node.js
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, IntelliJ, RStudio