Peter Le

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EDUCATION

University of Washington — Seattle, WA
Bachelor of Science in Informatics — *Sep. 2022 – June 2026*
Dean's List(Top Undergraduate Recognition, 2024)

Relevant Coursework: Data Structures & Algorithms · Databases & Data Modeling · Client-Side Development · Algorithms & Complexity

TECHNICAL SKILLS

Languages: Java (OOP), JavaScript, Go (learning), SQL, HTML/CSS, TypeScript, R (RStudio)
Frameworks & Tools: React, Node.js, Express, Firebase, PostgreSQL, Spring Boot
Distributed Systems: RESTful APIs, Microservices, Asynchronous Processing, Caching
Cloud & DevOps: WS (Lambda, EKS), Vercel, Git, CI/CD

EXPERIENCE

CoMotion Intern — Mar. 2025 – Present
University of Washington — *Seattle, WA*
- Designed a **data visualization web app** to transform CSV datasets into interactive flowchart graphs, incorporating **simulation-like behavior**, interlinked nodes, and dynamic recalculation.
- Built features for **hyperlink traversal, graph modeling, tree restructuring**, and UI/UX improvements for complex data—similar to modeling supply nodes and analyzing process flows.
- Collaborated with research stakeholders to optimize data workflows and implement monitoring for system reliability

Software Engineer Intern — Sep. 2024 – June 2025
Computing For All — *Seattle, WA*
- Designed and implemented scalable RESTful backend services using Node.js and Express, handling OAuth authentication and API integrations with third-party services
- Built data processing pipelines for real-time music data, implementing caching strategies that improved response times by 20%
- Collaborated in an Agile Scrum environment, delivering weekly iterations and maintaining high-quality code standards.
- Ensured system reliability through comprehensive error handling, logging, and monitoring of API endpoints

Cloud Research Intern — June 2025 – Sep. 2025
City of Seattle — *Seattle, WA*
- Researched cloud-based architectures and data workflows to support modernization initiatives.
- Proposed solutions to optimize metadata procedures and document organization for improved accessibility.
- Conducted technical analysis on document management systems to optimize accessibility and performance.
- Demonstrates direct City of Seattle experience, technical documentation, and collaboration across departments.

PROJECTS

Patent Visualization Tool | *React.js, JavaScript, Node.js, Git* — Mar. 2025 – Present
- Developing a web application to visualize patent data, enabling exploration of relationships between inventors, institutions, and technologies.
- Built interactive visualizations and implemented parsing workflows to handle large datasets efficiently.
- Applied data modeling and analytics to extract actionable insights for researchers and stakeholders.

Reddit Clone | *React, Node.js, Express, Firebase, Git, Postman* — Mar. 2025 – June 2025
- Designed and implemented distributed backend architecture supporting concurrent user sessions and real-time data synchronization
- Built scalable API endpoints handling authentication, authorization, and data persistence with focus on performance and reliability
- Implemented logging and monitoring for API performance tracking and debugging in production-like environment