ERIC LEE

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EDUCATION

University of British Columbia   Vancouver, BC
Bachelor of Science in Computer Science   *Sept 2020 – Aug 2025*
  Courses: Software Design, Computer Systems, Data Structures and Algorithims, Applied Machine Learning

WORK EXPERIENCE

Tesla Autopilot   Sept 2024 - Dec 2024
Autopilot Software Engineer Intern   *Palo Alto, CA*
- Built orchestration service in Go and RabbitMQ to automate builds and notify developers, saving 15h/week
- Wrote a Bazel proxy in Go to parse the build event stream, introducing observability while aiding build time reductions
- Increased local Bazel cache hit rate by writing algorithms in Python to traverse and trim Bazel build graphs, decoupling hundreds of C++ dependencies

Royal Bank of Canada   May 2024 - Aug 2024
Amplify Software Engineer Intern   *Toronto, ON*
- Created insight board and chat companion using Python, Next.js and PostgreSQL, with a projected impact of 200,000 hours saved per year and $35M of revenue over 5 years
- Implemented anomaly detection and chat functionality by training RAG model on client data, using GPT-4 and pgvector
- Deployed on Kubernetes using OpenShift

SAP   May 2023 - Dec 2023
Software Engineer Intern   *Vancouver, BC*
- Directed epic to enhance Concur's Travel platform by achieving a 33% reduction in API calls and introducing dynamic email content based on user locale in Kotlin
- Revamped old .ASP front-end to modern TypeScript and React-based system, integrating Redux and GraphQL queries
- Developed 15+ policy features in Go and Kotlin, allowing companies to set travel rules, utilized by over 800 customers
- Executed a red-team penetration testing initiative, focusing on prompt injections to identify security vulnerabilities in the booking platform and GPT 3.5 Turbo integration

Optum (UnitedHealth Group)   Sept 2022 – Apr 2023
Software Engineer Intern   *Richmond, BC*
- Introduced image configuration for images in DICOM format using C++ and Obj-C, increasing radiologist image interpretation efficiency by 15%
- Sped up CI/CD pipeline processes through internal tooling development with C#
- Resolved multiple client-side bugs on PACS medical imaging systems to increase user productivity

Self-Employed   Mar 2018 - Dec 2022
Computer Science and Physics Tutor   *Vancouver, BC*
- Improved student grade percentages by up to 30% with a mastery of C++ computing fundamentals

TECHNICAL PROJECTS

SAP Hackathon Winner: SAPshare - $4000 Prize | *Go, React, Gin, GORM, Javascript, Next.js*   Sept 2022
- Won first place of 33 teams at the SAP Invitational Hackathon by building an eco-friendly ride-sharing web-app
- Implemented CRUD API to schedule rides based on driver availability
- Front-end written in React, using Material-UI elements
- Incorporated dynamic shortest-path route mapping for employee efficiency using Dijkstra's algorithm
- Designed synchronized team-calendars for improved scheduling of rides

Driver Safety Tool | *Python, Azure, OpenCV, Git*   Jul 2019
- Lead a team of 5 at the Microsoft Hackathon to create CLI that tracks eye movement to alert drowsy drivers
- Gathered facial information using OpenCV, using Python to transfer Base64 images using Imgur's RESTful API
- Used Azure's FaceAPI to map facial landmarks, allowing for real-time observations

EXTRACURRICULAR

Vice-President, Communications   Apr 2024 - Present
UBC Computer Science Student Society   *Vancouver, BC*
- Led a team of officers to design and market club activities, to boost student engagement and foster connections

TECHNICAL SKILLS

Languages: Kotlin, Typescript, Python, Go, C, C++, C#, Java, JavaScript, HTML, CSS, Scheme
Frameworks/Libraries: React, PostgreSQL, JUnit, Next.js, Mocha, Chai, OpenCV, Jest, GraphQL
Developer Tools: Git, Linux, ElasticSearch, AWS