

KYLE CHANG

Personal Portfolio | github.com/kylechang133 | linkedin.com/in/kylechang133

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EDUCATION

University of Alberta

Bachelor of Science Honors in Computing Science, Minor in Mathematics

Edmonton, Alberta

Coursework: Software Engineering, Computer Networks, File/Database Management, Operating Systems, Web Dev

Expected Graduation: May 2027

WORK EXPERIENCE

Steadfast Engineering Ltd.

Edmonton, Alberta

Software Developer Intern

September 2025 – Current

- Built an internal project management platform with Next.js and TypeScript, streamlining ~250+ projects annually
- Optimized data fetching with React useSuspense and server action, reducing loading speed by 20%
- Implemented payroll and invoicing automation with real-time data sync, reducing processing time by 50%

So Shall We Inc.

Sydney, Australia (Remote)

Software Engineer Intern

January 2025 – Current

- Engineered and deployed AI powered WhatsApp chatbots for 3+ clients, supporting ~15,000 concurrent users
- Designed and launched high-conversion landing pages for clients, boosting engagement and lead generation by 30%
- Built internal client dashboards for analytics and monitoring, boosting operational visibility and efficiency by 25%

Dalroy Controls Ltd.

Calgary, Alberta

Software Developer Intern

May 2023 – August 2023

- Automated invoice generation and record-keeping with Python scripts, reducing administrative workload by 40%
- Implemented internal workflow automation, reducing manual effort and boosting efficiency by 30%
- Created centralized reporting tools, increasing data accessibility and cutting lookup time by 25%

SELECTED PROJECTS

BearBazaar [github](https://github.com/kylechang133/BearBazaar) | Javascript, React.js, Express.js, Vite, TailwindCSS, Prisma, SQLite, ShadCN

- Designed and developed a robust marketplace platform for students with authentication and data protection
- Built a sleek, responsive UI using React.js, ShadCN, and Tailwind CSS, delivering an intuitive user experience
- Implemented real-time direct messaging with HTTP WebSockets, enabling seamless user-to-user communication

QueueUp [github](https://github.com/kylechang133/QueueUp) | Java, Gradle, Firebase, Android Studio, JUnit, Figma, UML

- Developed a full stack Android app in Java for event creation and participation, with Firebase for real time data
- Implemented QR code generation/scanning and geolocation features to streamline registration and accessibility
- Designed a multi-user system supporting organizers and attendees, enhancing event management flexibility

ASL to Text Translator [devpost](https://devpost.com/software/asl-to-text-translator) | Python, PyTorch, OpenCV, PyQt6

- Developed a bidirectional real-time translator converting American Sign Language alphabet to English text
- Created a computer-vision model using PyTorch and trained it with an 87 000 labeled ASL Kaggle dataset
- Correctly interpreted ASL signs with 80% accuracy in real-world conditions

EXTRACURRICULAR ACTIVITIES

UofA Blueprint Chapter

Edmonton, Alberta

Project Developer

October 2024 – April 2025

- Implemented middleware-based auth checks in Next.js for page-level route protection
- Optimized API performance with caching, pagination, and query tuning, decreasing response latency by 50%
- Built custom visualizations with Chart.js, D3.js, and Recharts, boosting analytics adoption by 25%

University of Alberta Aerial Robotics Group

Edmonton, Alberta

Software Developer

September 2023 – September 2024

- Secured a 2nd place finish in the 2024 AEAC Annual Student Competition in Alma, Quebec
- Fine-tuned Yolov8 computer vision models to develop, benchmark, and integrate landing pad detection algorithms
- Utilized a variety of frameworks and libraries including MAVlink, PyQt6, PyTorch, Flask, etc.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, SQL, JavaScript/TypeScript, R, Lua, CSS, HTML

Frameworks and Libraries: React.js, Next.js, Django, Flask, TailwindCSS, ShadCN, Express.js

Technologies and Tools: AWS, Docker, Supabase, Firebase, MongoDB, Vercel, Git/GitHub, Linux, Neovim