

IRENE CHEUNG

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SUMMARY

Full stack software developer with experience building web applications using the MERN stack (**React, Node.js, MongoDB, Next.js, and TypeScript**). Proficient in **Python** for backend logic and integrating **AI Models**, with a strong foundation in software engineering principles, clean code practices, and Agile development. My background in scientific research and healthcare has cultivated strong **methodical thinking, communication, and interpersonal skills**, positioning me as an effective **team player** and **problem solver**.

TECHNICAL SKILLS

Programming Languages	JavaScript, Typescript, Python, SQL, Java, HTML, CSS
Frameworks and Libraries	React, Next.js, Node.js, Express, Tailwind CSS, Material-UI, Bootstrap
Databases	MongoDB, MySQL, Firebase, DynamoDB
Tools/Other	AWS, GCP, Docker, Git, Postman, Figma, Agile, REST APIs, AI integration, Gemini API

WORK EXPERIENCE

Frontend Developer [Freelance] | Unbox Apr 2025 – Dec 2025

- Modernize the user experience for **13,000+ users** by developing a responsive **Progressive Web Application (PWA)** for a South American logistics client in collaboration with four developers [**React, Typescript, Tailwind CSS, Zustand**]
- Develop core interfaces, including **Invoices, Settings, and Notifications**, for a logistics PWA designed for a client managing **1,000+ invoices/payments daily**
- Lead the **high-fidelity UI/UX prototypes** to meet client requirements and establish platform brand identity [**Figma**]

Junior Backend Developer [Contract] | Shop This City Apr 2025 – Oct 2025

- Architected and developed an **AI automation tool** to process product data every 5 minutes, improving admin workflow efficiency for a fashion e-commerce PWA serving **90,000+ users** [**Python, Gemini API, MySQL, Google Cloud Functions**]
- **Saved significant admin hours** by automating product categorization, style tagging, color detection, title generation, brand labeling, and description cleaning for **50–500 products daily**
- Strengthened **AI output reliability** through refined **prompt engineering** and real-time Slack log integration
- Optimized **performance and cost efficiency** through async processing and token tracking
- Ensured **code quality** by developing **430+ pytest tests** and iterating based on business feedback in an Agile workflow

Junior Full Stack Developer [Intern] | Shop This City Apr 2024 – Dec 2024

- Engineered a **microservice** to process **Google Analytics user action data**, enabling monthly business reports to guide strategic decisions and **track key performance indicators** [**Node.js, Express, Typescript, Google Analytics**]
- Developed **REST APIs** serving two internal services, streamlining data access and management
- Expanded project ownership by building the **frontend admin analytics interface**, creating an **intuitive, filterable dashboard** for admins to monitor product performance [**React, Next.js, TypeScript, Material UI**]
- Created **core B2B ordering interfaces**, including order summary and details pages, **streamlining transaction workflows** for wholesalers and retail partners [**React, Next.js, TypeScript**]
- **Promoted within five months** from intern to junior developer for consistently delivering **high-quality, impactful solutions**

EDUCATION

Computer Systems Technology (CST), Cloud Computing specialization (GPA: 4.0/4.0) Sep 2023 – Dec 2025 (Est)
British Columbia Institute of Technology (BCIT) Vancouver, BC

Related Courses: DevOps Engineering, Serverless Computing and Microservices, Object Oriented Programming

Bachelor of Science (B.Sc.) in Biochemistry with First Class Honours (GPA: 3.9/4.0) Sep 2016 – Apr 2021
University of Calgary Calgary, AB

Awards: NSERC Undergraduate Student Research Award, Undergraduate Research Symposium Honorable Mention

PROJECTS

Lead Frontend Developer | “Density Reporting Tool” | [GitHub](#) | [Website](#) Aug 2025 - Present

- Lead front-end design and development of a **React/TypeScript PWA**, digitizing **civil engineering density workflows** and improving **data entry efficiency and accuracy** for field technicians and lab admins
- Build all core front-end features, including the **job page, report page, density shot test page, photos page**, and integration with Cloudinary for **image storage**
- Collaborate with a practicing civil engineer to refine workflows to ensure they **align with real-world field practices**
- Maintain code quality and consistency using **Docker, ESLint, Prettier, Husky**, and **pre-commit** hooks

Frontend Developer | “The Tasty Fork” | [GitHub](#) Mar 2025

- Built a **full-stack restaurant web app** that allows customers to browse the menu, book reservations, add photo reviews, and submit contact forms [**React, Node.js, AWS**]
- Developed an **AWS backend** with **DynamoDB, S3, and SNS** for data, photo uploads, and notifications
- Designed and implemented **RESTful APIs** and state management while integrating core **AWS cloud services**

Software Developer | “Save the Platypus” | [GitHub](#) Mar 2024

- Built a **2D JavaFX game** using **OOP principles**, implementing dynamic mechanics, real-time loop, input handling, enemy spawning, collision detection, scoring, and level progression [**Java, JavaFX**]
- Implemented **gameplay features** such as random projectile generation and speed progression, to provide an engaging and challenging experience for players

Software Developer | “Chocopass” | [GitHub](#) Nov 2023 – Dec 2023

- Developed a command-line, text-based **Python** game featuring a multi-level grid where players collect chocolates, survive random pop quizzes, and face a final exam challenge [**Python**]
- Designed **modular architecture** with well-documented functions, leveraging Python’s **itertools**, **dictionaries**, and **lists** for efficient game state management
- Implemented **90+ unit tests** to validate functions, including mock testing, input handling, and edge cases
- Applied critical thinking to diagnose issues through **systematic troubleshooting**, debugging, and data analysis

Full Stack Developer & Project Manager | “Näborly” | [GitHub](#) | [Website](#) | [Figma](#) Oct 2023 – Dec 2023

- Collaborated in a team of three to build a **gamified web application** designed to help newcomers integrate into their communities [**JavaScript, jQuery, HTML, CSS, Bootstrap, Firebase**]
- Implemented core features including the **landing page, user profile, quest list, review system, and bookmarking** functionality and led the application layout design and UI using Figma wireframes
- Oversaw **project management** and **team coordination** under **Agile** practices to drive timely project delivery

LEADERSHIP AND VOLUNTEERING

Vice President of Outreach & Social Media Director | Women in Computing at BCIT | [Website](#) May 2024 – Sep 2025

- Led **outreach initiatives** for a **150+ member student club**, connecting members with industry professionals through company tours and guest speaker events
- Served as a liaison between the Women in Computing club and corporate partners to promote **collaboration** and **career development opportunities**
- Strengthened **communication, leadership, and coordination skills** through hands-on outreach and industry engagement
- Represented the club in [Link Magazine’s Leadership issue](#), highlighting **leadership and community engagement**

President | Pre-Optometry Student’s Association at University of Calgary Sep 2018 – April 2021

- Led **community outreach initiatives**, including collecting and donating used glasses to support underserved communities
- Organized **events and panel discussions**, including **school visits** and **guest speaker sessions** with optometry professionals

Interests: Fostering cats with VOKRA, traveling, digital art, café hopping, and yoga