Ryan Nguyen

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EDUCATION

University of Guelph — Sept 2021 - May 2026
Bachelor of Computing, Software Engineering, Minor in Statistics — *Guelph, ON*

EXPERIENCE

Candescent | *Kubernetes, Helm, Ant, GCP, ReactJS, Java, YAML* — January 2025 – August 2025
DevOps Engineer Intern — *Waterloo, ON*
- Deployed 20+ app updates to **Kubernetes** via Helm, cutting rollout time by 40% across dev and staging.
- Performed JMeter load tests and optimized DB queries/configs, improving peak response by 25%
- Resolved 33% of user-reported ReactJS bugs, boosting UI performance and reducing crashes in staging/production.

University of Guelph | *C, Python, Bash, Git* — January 2024 – Present
Teaching Assistant — *Guelph, ON*
- Guided 500+ students in CIS2500 (Intermediate Programming), covering C coding fundamentals and debugging.
- Automated grading workflow using a Python/C script, reducing 60% of grading time for 500+ submissions.
- Processed 20,000+ student records to data mine 100+ association rules with 95%+ confidence for insights.

Sun Life Financial | *AWS, Lambda, Sage Maker, Bedrock, Jupyter, Kendra* — May 2024 – August 2024
Software Developer Intern — *Waterloo, ON*
- Designed a scalable data analysis pipeline with **Redshift**/**Quicksight**, automating 50% of actuarial workflows.
- Built a Bedrock-based **RAG** chatbot, boosting retrieval accuracy across 300+ documents (2,500+ pages each).
- Developed a feedback system with **PostgreSQL**/**S3**/**Lambda** to log queries, measure accuracy, and refine models.

Oriole AI Inc. ↗ | *Swift, UIKit, Azure* — September 2023 – April 2024
Mobile Developer Intern — *Remote*
- Developed Kotlin and Swift apps integrating OCR/ML for real-time text-to-speech, used by 800+ professionals.
- Built **CI/CD pipelines** on Azure, automating multi-service deployments and reducing release cycles by 90%.
- Optimized audio generation with Swift **concurrency**, cutting latency by 82% for live speech synthesis.
- Implemented a dynamic QR scanner with PDF-to-audio pipeline, boosting feature adoption by 230%

Oriole AI Inc. ↗ | *Kotlin, XML, SDK, Firebase, Swift* — Febuary 2023 – August 2023
Mobile Developer Intern — *Remote*
- Integrated Firebase Cloud Functions with **OCR**, enabling text recognition to 800+ users, enhancing usability.
- Deployed Azure Cognitive Speech SDK for TTS/STT, improving accessibility for 70% of users.
- Refined UI with XML layouts and RecyclerView, cutting lag by 95% and resolving major performance issues.

PROJECTS

AI Note App - Hackathon Submission ↗ | *Three.JS, OpenAI API, Next JS, Tailwind CSS, Firebase*
- Engineered an interactive note system that 40% of participants favored for its role as an accessible tutor.
- Leveraged **Three.js** to personify the note companions, resulting in a 30% increase in user retention.
- Simulated note companion behavior using tagging and prompt engineering, earning 100+ user comments.

COVID - 19 Statistical Data Explorer ↗ | *Python, Pandas, Matplotlib, Seaborn*
- Constructed a data analysis algorithm that visualizes user inquiries in less than 5 seconds.
- Visualized 500,000+ data points using **Pandas**, Matplotlib, and Seaborn, improving analysis speed by 30%.

AI Exercise Tool - Hackathon Submission ↗ | *Next JS, Node JS, Tailwind CSS, Teachable Machine, Firebase, TensorFlow*
- Innovated a **pose recognition** service employing TensorFlow to track reps, increasing workout accuracy by 25%.
- Integrated global and personal leaderboards using **Firebase**, increasing positive feedback by 80%.
- Displayed visuals based on user progress with **Daisy UI** and Lottie files, raising user retention by 35%.

SKILLS

Languages: Python, Kotlin, Swift, JavaScript, Java, TypeScript, C/C++, SQL, XML, YAML, HTML/CSS, R

Frameworks: SwiftUI, React, Next, Node, Vue, Angular, Flask, Android SDK, UIKit, TensorFlow, jUnit, jQuery

Tools: AWS, Azure, GCP, Kubernetes, Firebase, Docker, MongoDB, Xcode, Android Studio, Jupyter, Figma