

Matthew Kompel

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Skills

Languages/Frameworks:

Python, JavaScript, TypeScript, Java, SQL, HTML, CSS, React, MudBlazor, Flask, Maven

Tools & Technologies:

Amazon Web Services (AWS), MongoDB, GitHub, Docker, GCP, Postman, Terraform, LLM

Professional Experience

Software Developer Intern, ResMed

Jun 2024 – Present

- Developed a web page to speed up AWS resource management by up to **80%** with **C#, Python, AWS Lambda**, and **Terraform**
- Modified the **AWS S3** bucket and **RDS Snapshot** configurations with **Boto3 Python APIs** and **AWS DynamoDB** to save **\$300,000** annually on storage costs

Software Engineer Intern, STAN AI

May 2022 – Aug 2023

- Created a client dashboard web application that served as the main company interface for over **20** individual clients using **React JavaScript, HTML, and CSS**
- Integrated homeowner portal accounting APIs into an SMS chatbot using **Typescript, Python**, and **AWS** to serve over **500,000** monthly active users
- Used database APIs to query over **10,000** objects for a web application with **MongoDB** and **AWS**
- Implemented a **web-socket-based** chat bar to push over **400 live** messages daily to clients using **AWS, JavaScript**, and **MongoDB Triggers**
- Refactored product codebases by using **microservice** layered architectural design to improve resource efficiency by **23%**

Teaching Assistant, Queen's University

Sep 2023 – Jan 2024

- Teaching team for a Computer Architecture course with over 200 undergraduate Computing students
- Covered important assembly language and data representation concepts through weekly office hours and email communication

Projects

Nucleus, Queen's Tech Media Association

- Developed a calendar style and task view web application for users to manage class deliverables with **JavaScript, React**, and **CSS**
- Stored each user account's information and handled server APIs with **AWS EC2, Maven Apache**, and **MongoDB**

SMS AI Campus Assistant, QHACKS Hackathon

- Used **AWS Lambda, JavaScript, GCP Dialogflow**, and **Open AI** to create an automatic response SMS assistant to handle campus inquiries and mental health concerns for students
- Trained an **NLP model** with over **2000 training data entries** to detect a student's intent with **92% accuracy**

Riddle Mobile App, Personal Project

- Created a mobile application that generates a random riddle daily for all users to solve using **MongoDB, Express, React**, and **Node**

Education

Honors Bachelor of Science in Computing, Queen's University

Sep 2020 – May 2025

- GPA: 3.94 on a 4.3 scale
- Specialization in Artificial Intelligence

AWS Certified Cloud Practitioner, Amazon Web Services

2024