

Matthew Kompel

✉ matthewkompel@gmail.com ☎ 6479365221 🌐 LinkedIn 🌐 Website

Skills

Languages/Frameworks:

Python, JavaScript, TypeScript, Java, C#, SQL, HTML, CSS, React, .NET, MudBlazor, Django, Spring Boot, Maven, Flask

Tools & Technologies:

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

Methodologies & Concepts:

System Design, Web Application Development, Testing Automation, Agile Methodologies, CI/CD, Cloud Technologies

Professional Experience

Software Developer, ResMed

Jun 2024 – Present

- Optimized AWS resource management by developing a web page using **Python, C#, AWS Lambda, and Terraform**, enhancing operational efficiency by up to **80%**.
- Modified the **AWS S3** bucket and **RDS Snapshot** configurations with **Boto3 Python APIs** and **AWS DynamoDB** to save **\$300,000** annually on storage costs
- Implemented a web application to automatically create synthetic tests for all ResMed websites with **C#, Python**, and **DataDog**, reducing resource error rates by **9%**

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 client portfolios** using **React, TypeScript, HTML, and CSS**
- Developed an **SMS chatbot** to handle real-time conversations for residents at more than **1,000 residential communities** with **Twilio, AWS, JavaScript, and MongoDB**
- Integrated homeowner portal **REST APIs** via a chatbot and web application using **TypeScript, Python**, and **AWS** to serve over **1,500** monthly requests
- Leveraged Python and MongoDB to query a database of over **10,000 objects** for a web application, incorporating **agile methodologies and CI/CD practices** to support operational stability

Teaching Assistant, Queen's University

Sep 2023 – Jan 2024

- Teaching team for a Computer Architecture course with over **200 undergraduate** Computing students, covering important assembly language and data representation

Projects

AdvisorScore, Personal Project

- Developed a financial advisor evaluation algorithm using portfolio returns and Morningstar benchmarks with **AWS, WebFlow, Python, and Google Search APIs**
- Deployed and scaled the project's resources using a **CI/CD** pipeline with **Docker, AWS EKS, and GitHub**

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 user information and handled server APIs with **AWS EC2, Spring Boot, Apache Maven**, and **MongoDB**

SMS AI Campus Assistant, QHACKS Hackathon

- Used **AWS Lambda, JavaScript, GCP Dialogflow**, and **Open AI** to create an automated SMS assistant to handle student needs with an NLP model of **92% intent detection** accuracy
- Integrated with **Google APIs** to handle calendar bookings, campus directions, and food recommendations through SMS

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