Matthew Kompel

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Skills

Languages/Frameworks:
Python, JavaScript, TypeScript, Java, C, SQL, HTML, CSS, React, Flask

Tools & Technologies:
AWS Cloud Tools, MongoDB, LangChain, GitHub, Docker, GCP, Postman, Twilio

Professional Experience

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 JS**, **Material UI**, and **Bootstrap**
- Integrated homeowner portal accounting APIs into an SMS chatbot using **Typescript, MongoDB, AWS Amplify**, and **Twilio** to serve over **500,000** monthly active users
- Trained an NLP model in **GCP Dialogflow CX** to handle over 10,000 incoming messages each month automatically
- Refactored product codebases by using industry-standard microservice layered architecture to ensure code reusability and efficiency
- Implemented a web-socket-based chat bar to push over **400 live** messages daily to clients using **AWS EventBridge, AWS API Gateway**, and **MongoDB Triggers**
- Assisted in the development of an embeddings model for fetching accurate information from over **200** community regulations documents using a **Python** backend with the **LangChain** framework

Teaching Assistant, *Queen's University*   Sep 2023 – Present
- 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

SMS AI Campus Assistant, *QHACKS Hackathon*
- Used **AWS Lambda, JavaScript, GCP Dialogflow**, and **MongoDB** to create an automatic response SMS assistant to handle campus inquiries and mental health concerns for students
- Developed a front-end application using **React JS** to show off the product features and provide a way for students to sign up

Stock Sentiment Analysis Tool, *Web Development Club Project*
- Pulled live stock market statistics via API to allow users to make informed investment decisions using **Python**
- Used a web application front end to organize important metrics and graphs, as well as display market trends using **React JS**

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**
- Implemented user account logins to track performance on past riddles and store individual statistics

Education

Bachelor of Computing (Honours), *Queen's University*   Sep 2020 – May 2025
- GPA: 4.0 on a 4.3 scale
- Relevant Coursework: Data Structures, Software Architecture, Java OOP, Operating Systems, Algorithms