

VIVEK KANDATHIL

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Full-stack developer with 3 years of experience at companies including **Microsoft**, **Nokia**, **LispLogics**, **Hivestack**, and **ResMed**.

EDUCATION

McGill University · Sept. 2019 to Apr. 2025
BSc Software Engineering (Internship Program)

EMPLOYMENT

LispLogics

Full Stack Developer · Aug. 2024 to Current · Montreal, Quebec

- Leading the development of the LispLogics web platform, a real-time full stack application which facilitates the management of critical operations for ride-sharing companies (including BIXI and Communauto)
- Designing & implementing a mobile dispatch platform (**Golang/gRPC** backend + **React Native** mobile application) which notifies truck drivers when tasks are dispatched to them through the web platform. The app allows drivers to update dispatchers on the progress of their tasks in real-time.
- Helping to **secure + onboard new clients** (bike/car share systems, etc.) by creating & demoing proof-of-concept integrations of the platform for different cities and meeting with & assisting dispatchers/truck drivers with field testing

Software Developer Intern · Jan. 2024 to Aug. 2024 · Montreal, Quebec

- Created a **React.js** frontend (designed using **Figma**) which provides a map & control menu for managing the dispatch of bike relocation employees. The UI displays the live location of truck drivers (using **Mapbox** + **Samsara**), as well as the current inventory & capacity of stations throughout the city of Montreal. It also shows the driver's tasks and the shortest route to complete the tasks from their live location.
- Developed an **Express.js** + Typescript backend which pushes live updates from a **Redis** database to the frontend through web-socket connections (using Socket.io).

Microsoft

Software Developer Intern · May 2022 to Aug. 2022, May 2023 to Aug. 2023 · Montreal, Quebec

- Assisted with the integration of **Azure OpenAI** & **GPT-4** into Nuance Atlas (an AI Copilot tool which assists call agents with fraud protection, live transcription/translation, caller sentiment analysis, etc). Created a **ChatGPT** component for the Atlas UI, which allows call agents to develop/send prompts and receive responses while on calls with customers (using transcriptions from their conversation as context)
- Led the development of a project for one of Nuance's clients - designed & implemented an Atlas feature which retrieves pre-defined agent scripts (phrases) from a SQL Server database (via Hibernate) to be autodetected when spoken during calls with customers. Implemented the backend (**Spring**), and UI (**Angular**)
- Worked on implementing a feature to summarize Agent/Customer conversation transcriptions using Microsoft's **Azure Cognitive Services** APIs

Hivestack

Software Developer Intern · Jan. 2022 to Apr. 2022 · Montreal, Quebec

- Contributed multiple features and bugfixes (including high-priority hotfixes) to the platform's UI (**Vue.js**) and backend (**Python/AIOHTTP**)
- Planned & developed an Advertiser RFP feature, which allows Media Owners to generate a "Request for Proposal" document (in PDF format), containing targeting parameters (audience demographics, locations, markets, etc.) and estimated cost + impression statistics for upcoming advertising campaigns
- Performed **MySQL** database migrations using **SQLAlchemy** & **Alembic**

ResMed

Associate Software Engineer · May 2021 to Aug. 2021 · Halifax, Nova Scotia

- Created a web application with **React** + MaterialUI for ResMed's Care Check-In product that lets developers easily create & manage response data from over **200,000** patient surveys (which are stored in an AWS **DynamoDB** table and updated by the app via **Lambda** functions).
- Configured **Terraform** & AWS **CodePipeline** to manage the building/deployment of the app
- Implemented backend features for ResMed's SMS notification service (using **Twilio**)

Nokia

Software Developer Intern · Sept. 2020 to Apr. 2021 · Ottawa, Ontario

- Worked as part of a Scrum team for Nokia's **WaveSuite** product, and resolved various stories + bugs for WaveSuite's UI (**React**), backend (**Spring** Framework and **Swagger**), and Path Computation **Neo4j** plugin
- Used tools such as **Ansible** and **Docker** to fix bugs related to WaveSuite's installation process

Student Intern · July 2018 to Aug. 2018 · Ottawa, Ontario

- Managed the SharePoint site for Nokia Global Network Engineering (GNE):
- Developed a successful workflow solution that identified missing metadata in document uploads, and automatically e-mailed the document editor.
- Also linked the Microsoft SharePoint group for GNE members with Nokia's Active Directory in order to automatically keep site permissions updated.

SKILLS

LANGUAGES: JavaScript, Python, Java, Go, C/C#, HTML/CSS, SQL, Bash

LIBRARIES/FRAMEWORKS: ReactJS/React Native, Node.js, Vue.js, Angular.js, Spring/Spring Boot, Redux, Auth0, JUnit, LangChain, JavaFX, Socket.io, Mapbox

TOOLS: AWS (S3, EC2, DynamoDB, Lambda, SQS), Docker, Redis, ScyllaDB, MySQL, Git/Bitbucket/GitLab, Ansible, JIRA, Alembic, Figma, Azure DevOps, Terraform

PROJECTS

ParkinSync (Microsoft Imagine Cup Semi-finalist) · Sept. 2023 to Current

- Leading a team of **40** McGill students in the design & development of a full-stack software application (ParkinSync) which analyzes signals from a variety of sensors attached to the hand (EMG, accelerometer, etc.), characterizes potential symptoms of Parkinson's disease, and displays the data/analysis in a user-friendly format.
- The ParkinSync software was placed as a semifinalist in the 2024 **Microsoft Imagine Cup**
- Additionally overseeing the development of an **exoskeleton** for the hands which assists in suppressing tremors caused by Parkinson's disease

Autonomous Underwater Vehicle (Software Developer) - McGill Robotics · Sept. 2023 to Aug. 2024

- Worked with a team of Engineering students to develop & maintain software for an Autonomous Underwater Vehicle (AUV)
- Developed features for the vision/autonomy and planner software packages in preparation for the **RoboSub** competition