

Kian Karbasy

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EDUCATION

Cloud Engineer (in pursuit)

Google Cloud Certification

Waterloo, ON

Expected Completion: May 2024

- **Relevant Services:** Google Cloud Console, Elastic Services, Deployment, Firebase, Authentication, Logging.
- **Course:** [Google Cloud Engineer Learning Path](#).

WORK EXPERIENCE

Software Developer – Web Application Specialist

Neatco Engineering Services Inc

Waterloo, ON

Apr 2022 – Pres.

- Championed the creation and launch of two innovative React.js/Tailwind CSS applications within the automation and manufacturing sectors, managing tasks from design conceptualization to final execution. The user-friendly design of these platforms was highly praised, offering substantial time savings of one hour daily for facility operators and administrators.
- Engineered the successful integration of Flask-based server architectures for in-house network applications and leveraged GCP/Firebase for cloud solutions, enhancing web application functionality. This initiative provided real-time access to analytics, metrics, and KPIs, leading to an average improvement of 15% in manufacturing process efficiency for our clientele.
- Developed a custom algorithm utilizing Python's OpenCV library and Facebook's Detectron2 framework to accurately detect, identify, and count printer cartridges on a moving conveyor belt, achieving a remarkable 97% accuracy rate.
- Successfully deployed the AI algorithm on an edge computing device, which continues to operate in a recycling facility. This implementation boosted facility accuracy by 10% while reducing system costs by 20% compared to the previous manual counting process.

Associate Software Engineer

Carfax US

London, ON

Jan. – Sep 2023

- Led development of an internal React.js application utilized by multiple cross-functional teams. Implemented data manipulation features using MobX state management and Typescript, resulting in a 20% reduction in task duration.
- Developed and implemented role fetching micro-service to optimize Node.js/GraphQL and Groovy applications, enhancing client-side calls crucial for data migration. Achieved a 10% improvement in data migration efficiency through logic enhancement.
- Ensured code quality and reliability by writing comprehensive unit tests using the Spock and Jest framework.
- Leveraged Postman for comprehensive API testing of backend micro-services in both Spring and Node.js frameworks that wrote and read from MongoDB cloud storage.
- Migrated out of date legacy application running on internal servers to AWS using the serverless framework.

Frontend Software Developer

Molex Canada

Waterloo, ON

Jan 2021 – Apr 2022

- Spearheaded the creation of a highly reusable component library for a client's hardware configuration tool application. Strategically designed this library to significantly reduce future development time, ultimately contributing to an impressive 50% reduction in future project timelines.
- Expedited development by identifying redundant UI components and proposing innovative methods for dynamic reusability and rendering. Crafted UI components within the Vue.js framework, ensuring accessibility for future developers, and implemented dynamic logic using Typescript.
- Programmed a web application with meticulous attention to detail, closely aligning the implementation with Figma mock-ups. Actively collaborated with clients to create a user-centric and seamless user experience (UX).
- Designed and developed an internal web application tailored for use by the company's employees and manufacturing partners. The application resulted in a substantial 30% improvement in hardware configuration efficiency, enhancing overall operational productivity.
- Engineered intricate UI components using a combination of Vue.js framework, HTML, and CSS. Implemented the core application logic using Typescript, ensuring the application's robustness and maintainability.

PERSONAL PROJECTS

Lab Data Info Project

Full Stack Web Application

- Built an application to help manage lab data for a local hospital using a React.js/Tailwind CSS frontend, and GCP/Firebase cloud solution for storage, functions, and messaging.
- After signing up, only searching is allowed. Please contact for admin privileges.
- Find the web application [here](#).

SKILLS

- **Languages:** TypeScript, Java, Python, C++, HTML, CSS, Groovy, SQL.
- **Tools/Frameworks:** React.js, Tailwind CSS, Redux, Vue.js, Node.js, GCP, MongoDB, Redis, GraphQL, Express.js, Flask, TensorFlow, Postman, GitLab, Figma, Linux, Jira, Agile, Jest, TDD, New Relic.