

Kian Karbasy

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EDUCATION

Solutions Architect (in pursuit)

Waterloo, ON

Aws Certification

Expected Completion: Jan 2024

- **Relevant Services:** S3, EC2, API Gateway, Route 53, Lambda, DynamoDB, CloudFront, SNS.
- **Course:** AWS Certified Solutions Architect, by Stephane Maarek through Udemy.

WORK EXPERIENCE

Associate Software Engineer

London, ON

Carfax US

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- Migrated out of date legacy application running on internal servers to AWS using the serverless framework.

Software Developer

Waterloo, ON

Neatco Engineering Services Inc

Apr. - Sep 2022

- 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.
- Designed and implemented a robust data pipeline in Python, allowing clients to seamlessly upload and store data in AWS S3 cloud storage.
- Created and rigorously tested React.js/Flask demo applications showcasing our custom Detectron2 AI algorithms, specifically designed for the identification and labeling of various types of batteries.

Frontend Software Developer

Waterloo, ON

Molex Canada

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 Demo

Full Stack Web Application

- Built an application to help manage lab data for a local hospital using a React.js frontend, Node.js backend (with JWT authorization), MongoDB/AWS S3 cloud storage solution, and hosted on Render.
- Credentials | User: basicDemo | Pass: 1amb4sic | Admin Creds (CRUD operation access): please contact directly.
- Find the application here: weeelab.com.
- Please allow a moment for login to process since the server is hosted on a free-tier level until taken to production.

SKILLS

- **Languages:** Typescript, Java, Python, C++, HTML, CSS, Groovy, SQL.
- **Tools/Frameworks:** React.js, Vue.js, Node.js, AWS, MongoDB, GraphQL, Express.js, Flask, TensorFlow, Postman, GitLab, Figma, Linux, Jira, Agile, Jest, TDD.