

KEVIN TOMS

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Skills

- Python, JavaScript, Java, Django, Flask, Pandas, Node, jQuery, NoSQL, MySQL, C/C++, React, Vue.js, Next.js, Jest, Go.
- AWS, GCP, Azure, S3, SNS, SQS Lambda, Redis, Docker, Kubernetes, Nginx, gRPC, GraphQL, Git, CI/CD, Bash, Linux.
- Microservice, Backend, Frontend, Full-Stack, Machine Learning, REST, TDD, Tensorflow, Agile, Leadership, Bilingual.

Experience

Software Developer at *AlayaCare, Toronto, Canada*

April 2022 – Present

- **Authentication** - Integration of Keycloak, an Identity service, facilitating the smooth migration of users from our databases. Also revamped the current authentication system to incorporate Keycloak. (Python, Flask, PHP)
- **Invoice Pipeline** - Redesigned the invoice PDF generation pipeline with a caching layer, resulting in efficiency gains. Achieved **66% reduction in processing time**, enhanced performance **from 15s to 5s**. (Python, Redis, Celery, S3)
- **Event System** - Contributed significantly to the development of a PubSub event system, enabling 5 microservices to perform async tasks. Resulted in over **57% reduction in latency for 15+ APIs**. (Python, SNS, SQS, Lambda)
- **eFAX** - Developed and integrated faxing feature for patient information exchange with health authorities using Kno2 APIs, **boosting company's ARR by an impressive \$300K**. Later optimized loading table contents from cache, **reducing response time by 60% from 8s to 3s**. (Python, Flask, Vue.js)

Software Developer at *Fulcrum Technologies, Toronto, Canada*

Dec 2019 – April 2022

- **VRTA** (an LMS) - Spearheaded the development of a course creation component empowering teachers to manage classes, assign courses and tasks to students, resulting in **80% reduction in course building time from 2 hrs to 20 mins**. Later, the product was sold and the company yielded a profit of **\$500K**. (Python, Next.js)
- **VRTA** - Created and deployed an admin portal for obtaining user insights. Resulted in a remarkable **80% reduction on the time spent** on fetching data and building graphs; **from 3 hrs to 30 min per day** thus enabling developers and managers to be more productive. (Python, Lambda, Typescript, Next.js, Dynamodb)
- **Color Keys** - Designed a **MIDI Evaluator** for a self-learning piano app. Compares user's MIDI input with original song, calculating score based on timing and correctness of note play. Later moved the script to C++ for performance gains.

Software Developer at *Tata Consultancy Services (TCS), India*

Aug 2017 – Sept 2019

- Performed **advanced data analytics** and trained ML model on telematics data to identify anomalies, focusing on the precise detection and exclusion of public transport trips from the user data. (Python, Pandas, SQL, Tensorflow)
- Designed and developed the backend for an AR mobile app that utilizes a **retrained Inception-v3** model to instantly detect common objects from real-time images. (Python, Django, Rabbitmq, Tensorflow)
- Developed and deployed a web application that enables users to **extract answers to questions** from a designated text context using AllenNLP's APIs, an open-source NLP Research library. (React, Django)

Education

- **Georgian College, ON, Canada** Sept 2019 - April 2020
Big Data Analytics (Dean's List) - CGPA 9.0/10
- **Mahatma Gandhi University, India** April 2013 - May 2017
Bachelor of Computer Science

Projects

- **Pothole Detection** - Applied transfer learning on a RetinaNet-50 model using a custom dataset. The project involved data collection, annotation, and preprocessing to create a specialized dataset. Employed Python and TensorFlow for model retraining, showcasing potential applications in smart city initiatives.

Activity and Awards

- Participated in CodeVita, a global coding contest conducted by TCS. Shortlisted under 1500 among thousands of participants globally, **securing a job offer at Tata Consultancy Services - August 2016**
- **Received 'A' band at TCS** - prestigious recognition for being the top performance in the team for the year 2018.