

KEVIN TOMS

✉ ckevintoms@gmail.com | 🌐 github.com/kevintomsgithub | 🔗 linkedin.com/in/kevin-toms | 📞 +1 (705)-970-6689

Skills

- Python, JavaScript, Rust, Java, Django, Flask, Pandas, Node, jQuery, NoSQL, MySQL, C/C++, React, Vue.js, Next.js, Go.
- AWS, GCP, Azure, S3, SNS, SQS, Lambda, Kafka, Redis, Docker, Kubernetes, Terraform, gRPC, GraphQL, CI/CD, Bash.
- Microservice, Backend, Frontend, Full-Stack, AI/ML, REST, Git, Vim, Tensorflow, CDN, Agile, Leadership, Bilingual.

Experience

Senior Data Delivery Engineer at Shutterstock, Toronto, Canada

Jan 2024 – Present

- **Disaster Recovery and Cost Optimization** – Spearheaded the development of a scalable system to **replicate 100TB+ asset** footprints from S3 buckets to client buckets, achieving **99.99% data integrity and processing over 1 billion assets**. Optimized egress from client CDNs, reducing data delivery costs by **80% and saving \$2.7M annually**. Enhanced disaster recovery readiness and operational efficiency. (Rust, S3, SNS, SQS, Lambda, CDN)
- **Data Delivery Optimization** – Designed and led the development of a scalable v3 data transfer tool, enabling the transfer of over 1 billion objects. Achieved a **50% performance improvement** and a **40% reduction in operational costs**, ensuring robust and cost-effective data delivery. (Python, S3, SNS, SQS, Lambda, CloudFront, Terraform)

Software Developer at AlayaCare, Toronto, Canada

April 2022 – Jan 2024

- **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 (LMS Platform)** – Spearheaded the end-to-end development of VRTA, enabling teachers to create and manage robotics courses. Later reducing course creation time by **80% (2 hrs to 20 mins)**. Built and deployed an admin portal for user insights, cutting data analysis time by **80% (3 hrs to 30 mins/day)**, boosting productivity for developers and managers. The platform was sold, yielding a **\$500K profit**. (Python, Next.js, Lambda, S3, TypeScript, 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

- **AI-Powered Applications** – Designed and deployed the backend for an AR mobile app leveraging a retrained Inception-v3 model, enabling real-time object detection with **95% accuracy for over 50,000 users**. Developed a web application utilizing AllenNLP APIs to extract answers from text contexts, enhancing response accuracy by 90%. (Python, Django, Pandas, SQL, TensorFlow, React, EC2, RabbitMQ)

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 – Leveraged transfer learning with RetinaNet-50 on a custom dataset. Achieved accurate detection using Python and TensorFlow, highlighting potential for smart city solutions.

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.