JACOB MATIAS

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SKILLS

Languages:	Python, C, Java, Typescript/Javascript, SQL
Technologies:	Angular, React, NextJS, TailwindCSS, Django REST, Spring Boot, Git, Docker, Postman, Figma, NewRelic, OAuth, PostgreSQL, MySQL, MongoDB, Firebase, Neo4j
AWS Cloud:	Roles, Lambda, Glue, RDS, EC2, ECS, ECR, S3, SQS, CodePipeline, CodeBuild, CloudWatch, Route53, API Gateway, CloudFront, DynamoDB

EXPERIENCE

Full Stack Developer — Sept 2024 - Apr 2025
Temerity Analytics — *Toronto, CA*

- Built secure backend services like role-based access control, API key authentication, and PDF/CSV reporting using Django and AWS services, improving data security and automating reporting workflows.
- Automated mobile app's backend deployments using AWS CodePipeline, Docker, and EC2, reducing release times and increasing deployment reliability.
- Implemented decentralized EU/CA backend authentication and routing with a frontend toggle and HTTP interceptor, improving system maintainability, scalability, and regional data handling.

Backend & Cloud Developer — Jan 2023 - Aug 2023
Caseware International — *Toronto, CA*

- Worked on design and deployment for a new feature on existing AWS ETL pipelines that provided historical data extraction capabilities and enhanced analytics for clients.
- Implemented serverless workflows with AWS Lambda, Glue, SNS, SQS and Step Functions, streamlining large-scale data processing and reducing latency.
- Created NewRelic dashboards using NewRelic and CloudWatch logs, enabling faster bug detection and resolution times

PROJECTS

SoundSync Ensemble

- Built a web app enabling real-time group music creation with MIDI instruments using React, NextJS, TailwindCSS, and Socket.IO.
- Developed session recording and playback features that compile individual user inputs into a single track, stored in MongoDB.
- Deployed on DigitalOcean using Docker and Nginx with SSL encryption via Let's Encrypt, including secure domain configuration.

LangChain Open-Source Contributor

- Contributed to LangChain AI open-source by integrating a new Agent tool that enables querying NASA's Image and Video Library API for multimedia retrieval.

VolunteerWorks - TOHacks Hackathon Winner

- Built a full-stack web app using CockroachDB, ExpressJS, Angular, and NextJS that lists nearby volunteering opportunities with a reward points system, earning the TOHacks 2022 'Best Use of CockroachDB' award.

EDUCATION

Bachelor of Computer Science - Entrepreneurship Stream, University of Toronto — 2020 - 2025