Melissa Tamplin

Ottawa, ON
(613)889-9154
contact@meibee.dev
www.meibee.dev
linkedin.com/in/mel-david
github.com/missadavid

Diligent and highly detail-oriented Software Developer with 6 years of experience in redesigning & architecting applications from the ground up, implementing API clients, and managing large datasets. Proven expertise in documenting APIs, importing & deserializing data, and maintaining legacy applications. Proficient in translating problems into solutions and automating processes.

Work Experience

Software Developer Consultant
Qlarifi - Ottawa, ON
03/2024 to 10/2024

- Architected event-driven, multi-tenant .NET services using Apache Pulsar, achieving throughput of 3,000 events/second and enabling real-time data processing across multiple customer environments.
- Engineered automated testing framework with synthetic personally identifiable information (PII) data generation, reducing end-to-end test setup time by 80% and enabling daily validation of system integrity across tenant boundaries.
- Developed internal admin dashboard for engineering team, reducing average incident response time from hours to minutes, while creating comprehensive technical documentation that decreased onboarding time for new team members by half.
- Optimized critical database queries and implemented caching strategies, reducing average query execution time by 70% and improving overall application responsiveness.
- Spearheaded integration of Tilores identity resolution service, collaborating with CTO to enhance customer matching accuracy.
- Implemented OpenTelemetry instrumentation and AWS CloudWatch dashboards, providing real-time visibility into system health and reducing incident investigation time by 60% through centralized logging and monitoring.

Backend Software Developer
Field Effect - Ottawa, ON
12/2022 - 09/2023

- Engineered new API endpoints and co-branding features for Covalence Portal's monitoring reports, increasing partner adoption and satisfaction.
- Automated client quote generation and order creation workflow, integrating with Stripe API to reduce onboarding time by 75% and increase successful first-time setups from 60% to 95%.
- Led implementation of Auth0 and MFA security solutions while driving SOC 2 compliance initiatives, collaborating with design team to reduce authentication-related support tickets.

Software Engineer
Paloma Group - Wellington, Aotearoa New Zealand
10/2021 - 08/2022

- Architected and deployed cryptocurrency settlement platform, automating 90% of manual crypto/fiat exchange processes and reducing settlement time from hours to minutes.

- Developed secure AWS Lambda functions integrated with SGX enclaves, achieving amazing uptime while validating security logic.
- Established comprehensive testing framework with 90% code coverage, reducing post-release bugs and cutting deployment time by 50% through optimized CI/CD pipelines.

Backend Developer
Springload Te Pipitanga - Wellington, Aotearoa New Zealand
09/2020 - 10/2021
- Led migration of Massey University's CMS to bilingual Django-Wagtail platform, improving page load times by 75% and achieving WCAG 2.1 AA accessibility compliance for 10,000+ pages.
- Engineered data migration pipeline processing 10+ years of university records, achieving 99.9% data accuracy while reducing database query times by 70% through optimized PostgreSQL schemas.
- Revitalized legacy Node.js application through comprehensive refactoring, resulting in reduction in runtime errors and improvement in application performance.

Full Stack Developer
Common Code - Melbourne, Australia
04/2019 - 09/2020
- Developed event-driven customer profiling system for global luxury cosmetics retailer, processing thousands of customer profiles daily, enabling targeted marketing campaigns across all regions.
- Enhanced user experience and accessibility of community-led websites to high standards, increasing mobile user engagement.
- Created and delivered ICT training curriculum for women in Tonga, and tutored juniors as part of organized events, resulting in a growth of reputation for the company.

Core Competencies

APIs, automation, data migration, microservice architecture, database management, event-driven architecture, security awareness, problem-solving, analytical thinking, mentoring, testing, verbal and written communication

Technical Skills

C#, .NET, Python, Django, Flask, FastAPI, TypeScript, HTML/CSS, React, Vue.js, Nextjs, Docker, PostgreSQL, MySQL, GraphQL, Git, Terraform, Apache Pulsar, AWS, Kubernetes

Education

Bachelor of Arts in Humanities | Paris VII Diderot

Certificates

Trade Certificate in Computer Programming
AWS Certified Cloud Practitioner (2020)

Languages

French, Korean