PARAM TULLY

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LinkedIn ◇ GitHub ◇ Portfolio

EDUCATION

University of British Columbia, BSc in Computer Science, GPA: 3.58/4.0 Sept 2021 - May 2025
Relevant Coursework: Distributed Systems, Computer Networking, Relational Databases, Machine Learning

EXPERIENCE

DevOps Engineer Intern Sept 2023 – Dec 2023
Invoke - Vancouver, BC

- Shipped production authentication across mobile and backend stacks using AWS Cognito with federated identity (Google, Facebook, Apple), integrating React Native clients with a Node.js API
- Built reusable CI/CD pipeline with Fastlane automating iOS builds, signing, and App Store deployments, reducing release time from 1 hour to 10 minutes
- Provisioned cloud infrastructure using Terraform; improved pipeline security and performance by parallelizing tests, optimizing Docker layers, and migrating secrets to AWS Secrets Manager

  Technologies: TypeScript, React Native, AWS, Terraform, Docker, Fastlane, CircleCI

PROJECTS

Stock Analytics Platform *(Personal Project)*

- Designed and operated 15+ event-driven microservices processing 1M+ market events/day with end-to-end AWS infrastructure defined across 15+ Terraform modules
- Eliminated NAT Gateway costs via two-stage Lambda architecture; cut storage 70–90% with Parquet columnar format and S3 lifecycle policies
- Engineered idempotent stock-split reconciliation, Cognito JWT auth, and layered rate limiting (WAF + API Gateway) for production correctness and abuse protection
  Technologies: TypeScript, React, PostgreSQL, Terraform, AWS (Lambda, ECS Fargate, RDS, S3, EventBridge, API Gateway, Cognito, WAF), Parquet, Docker, GitHub Actions

Multi-Vendor B2B Marketplace *(Personal Project in Development)*

- Building a B2B SaaS marketplace aggregating supplier inventory with no standardized product IDs; designing canonical identity resolution across heterogeneous vendor schemas
- Modeled domain-driven PostgreSQL schema for idempotent multi-vendor ingestion with circuit breakers, fault isolation, and schema-drift-tolerant validation
- Architecting streaming pipeline processing 100K+ listings/vendor in constant memory with async iterators and backpressure control
  Technologies: TypeScript, Next.js, React, PostgreSQL, Drizzle ORM, Zod, Supabase, Vercel

Distributed Key-Value Store *(Academic Project)*

- Implemented a linearizable distributed database using Raft consensus with leader election, log replication, and snapshot-based recovery, passing fault-injection tests for network partitions and node crashes
  Technologies: Go, Raft, Distributed Systems

SKILLS

Languages: TypeScript/JavaScript, Go, Python, Java, C/C++, SQL, Bash
Cloud & Infra: AWS, Terraform, Docker, PostgreSQL
Tools & Frameworks: Git, React, Next.js, Node.js/Express, Drizzle ORM, GitHub Actions, CircleCI