Sajan Toor

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EDUCATION

Simon Fraser University *Burnaby, BC*
Bachelor's of Science: Computer Science *Sept 2020 - Aug 2025*

WORK EXPERIENCE

SAP *Jan 2025 - Present*
Software Developer (Full Time) *Vancouver, BC*
- Developed cloud-native microservices **handling millions of authentication, authorization, and routing requests**, using Java, Spring Boot, Jakarta, Feign, Resilience4j, Hystrix, and Project Reactor, powering SAP infrastructure
- **Reduced request latency by 70%** through asynchronous and non-blocking operations using **Project Reactor**
- Resolved on-call issues by identifying root causes and deploying fixes, upholding SLAs and user satisfaction
- Built a browser extension for 1-click access to customer logs and tenant info, **cutting incident response time by 15%**

SAP *May 2024 - Jan 2025*
Software Developer Intern *Vancouver, BC*
- Engineered a full-stack feature to streamline Identity Provider (IdP) federation by developing and implementing new APIs in Java microservices and a JavaScript monolith, and developing a brand new user interface with SAPUI5
- Achieved **60% faster API responses** using Caffeine cache, boosting throughput and reducing database load by 20%
- Resolved a critical bug in the self-service SAML workflow preventing customers from logging in after configuring SAML SSO, by debugging complex authentication code and implementing a fix
- Migrated a legacy JavaScript codebase to TypeScript improving maintainability and developer productivity by **20%**

SAP *Jan 2022 - Sept 2022*
Software Developer Intern *Vancouver, BC*
- Designed a Kubernetes based synthetic monitoring microservice for performing health checks on critical workflows, utilized publisher-subscriber pattern and RabbitMQ as the message-broker, ultimately improved product's reliability
- Enabled developers to quickly identify and address issues by developing an end-to-end UI based testing software using Selenium, Python and Jenkins, **reduced manual testing by 80%**
- Minimized customer impact by proactively alerting on-call developers of issues by creating alert systems for key metrics such as error rate, **saved 20% of their time**

PROJECT EXPERIENCE

URL Shortener
Go, gRPC, Docker, Kubernetes, Redis, Cassandra, Amazon Web Services (AWS)
- Created a scalable URL shortener in Go, employing a microservice architecture with efficient gRPC communication
- Deployed on AWS using EKS for Kubernetes, leveraging automated scaling, load balancing, and self-healing
- Integrated Redis for high performance caching, enhancing read performance and reducing database load
- Used Cassandra for data replication and partitioning, ensured high availability and scalability with large data volumes

NP-Compete
TypeScript, Node.js, Express, Redis, TypeORM, PostgreSQL, Next.js, Chakra UI
- Developed a web application where users join rooms to compete in programming challenges against each other
- Created REST APIs in Express providing endpoints allowing users to login, create rooms, and submit code
- Implemented rooms using WebSockets to communicate events between the clients and server in real-time
- Utilized Redis to persist user sessions and cache frequently accessed data, improving application performance

Unofficial LeetCode API
Java, Spring Boot, Swagger, Apache HTTP Client, Google Cloud Platform (GCP)
- Built an API orchestrator microservice providing REST APIs for common LeetCode operations such as retrieving problems, using Apache HTTP Client to make requests to LeetCode's REST and GraphQL APIs
- Deployed the API to Google Cloud Platform's App Engine and used health endpoints to ensure availability

SKILLS

Languages: JavaScript, TypeScript, Python, Java, Go, C, C++, Rust, SQL, x86 Assembly, HTML, CSS, Haskell
Technologies: Node.js, Express, Spring Boot, GraphQL, React, Next.js, Vue, Selenium, Redis, PostgreSQL, RabbitMQ
Tools: Git, GitHub, Jira, Jenkins, Postman, JMeter, Docker, Kubernetes, Google Cloud Platform, Grafana