Iniyan Chelladurai

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PROFESSIONAL SUMMARY

Senior Backend Engineer at Ford from UWaterloo, youngest in company history. Trusted to lead and architect critical internal platforms powering secure user management, access control, and operational efficiency across the enterprise.

WORK EXPERIENCE

Senior Software Engineer, Ford Motor Company   **Jan 2022 – Current**
Ford Pro: Datamesh - Lead Back-end
- Solely architected and deployed Ford's internal data access platform, enabling company-wide **automated requesting, review and provisioning of secure data access**
  - Built scalable **Java Spring Boot + PostgreSQL** backend handling **1,200+ monthly access requests** with dynamic forms and multi-stage approval flows
  - Reduced manual provisioning by **99.2%** by automating **IAM** and **GCP** security group access via real-time request status triggers
  - Unlocked backend-controlled provisioning for the **remaining 40%** of security groups (Google) by reverse-engineering Google Identity APIs and integrating federated Azure service accounts — **exceeding project scope and delivering full-platform automation**
  - Ensured **100% alignment** between admin decisions and actual access states by building a fallback system that **auto-synced provisioning mismatches**
  - Increased request flexibility and reduced admin escalations by **40%+** by enabling partial approvals across risk levels and identity types through **fine-grained workflows**
- Established test-safe IAM infrastructure by creating pre-prod group environments and bulk user tooling to support full lifecycle dev/testing
Ford Pro: Mobile Servicing EU - Full Stack
- Shipped the **React + Express.js** based online service **booking app** for Ford's EU commercial fleet market, enabling on-demand remote servicing for fleet managers overseeing a combined **4 million vehicles**
- Improved booking rate from **120 to 190 bookings/day** by overhauling core UX flows; cut tester complaints from **15 to 5 per census**, leading to a **37% increase in tester satisfaction** over the course of our 1 month closed beta period.
- Replaced legacy booking system post-closed beta, launching to production **across the EU**; achieved a **58% increase in successful bookings** and a **41% reduction in support escalations** compared to the previous system within the first 2 weeks.
Autonomous Vehicles: Vehicle Health & Telemetry - Back End
- Enabled revenue-grade **automation of fleet billing and compliance** by integrating real-time mileage tracking via Autonomic's TMC API and delivering **~12,000 daily Kafka-driven notifications** eliminating manual audits and streamlining cost recovery across enterprise fleet operations.

Front End Developer, Sipstack *(White-label VoIP and messaging platform)*   **Dec 2020 – Aug 2021**
- Handled **1M+ daily messages** by developing a white-label Progressive Web App for enterprise SMS/IM platforms using **HTML**, **CSS**, **JS**, and **jQuery**.

SKILLS

Languages: Java, Python, JavaScript, Typescript, C, SQL, HTML/CSS, BASH, JSON/YAML, Kotlin
Technologies: Spring Boot, PostgreSQL, REST, GraphQL, Terraform, Tekton, OAuth 2.0, Docker, Kubernetes, , React.js, Express.js, Vite, Node.JS, Google Cloud Platform (IAM, Cloud Functions, Cloud Run, Pub/Sub, Cloud Storage, Secret Manager, Cloud Logging, Cloud Monitoring, Cloud Build, Workload Identity Federation)

EDUCATION

University of Waterloo, Honours Computer Engineering, BASc, 4.0 GPA   **Apr 2024**
- Dean's Honour List, President's Scholarship of Distinction, Graduation with Distinction