TYLER ALLEN

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Experienced backend software engineer with 9+ years in fast-paced startup environments.

EXPERIENCE

EvidentID
Atlanta, GA

Backend Software Engineer II
January 2021 – April 2025

- Proposed and led the development of a new fine-tuned BERT machine learning model to replace the existing custom PyTorch CNN used to classify background check data; reduced classifications requiring human review by 50% and cut review time for remaining cases by 90%
- Led the development of a Python FastAPI authentication service for Emissary API Gateway on Azure Kubernetes Service; collaborated with frontend developers and DevOps to ensure OAuth-based access functioned correctly
- Led development of a Flask REST API to centralize notification and branding configurations in PostgreSQL; implemented OAuth and API key authentication
- Collaborated with an international remote team to develop an insurance document verification service in Scala using Akka and PostgreSQL; implemented an API to submit documents to AWS S3
- Introduced new workflows that reduced development time for routine new features from weeks to days
- Configured and maintained Helm charts for deploying Python and Scala services to Azure Kubernetes Service; enabling scalable and reliable deployment across development and production environments

Backend Software Engineer
December 2017 – January 2021

- Led development of an automated background check service in Python, integrating data from multiple REST/SOAP APIs; used NLP and machine learning to extract and validate information against customer profiles while ensuring FCRA compliance—this service generated 50% of company revenue during this period
- Implemented comprehensive end-to-end automated testing with PyTest, Selenium, and Cucumber/Gherkin for Behavior-Driven Development; enabled thorough regression testing for all services
- Configured Jenkins workflows for CI/CD to run linting, unit and integration tests, and builds; enabled automated deployments for development environments
- Implemented an event-driven architecture using RabbitMQ to trigger notifications and start data processing flows; improved system scalability and performance
- Developed and maintained a REST API in Elixir Phoenix with PostgreSQL to manage customer configurations; enabled customer self-service and reduced onboarding time by 90%
- Served as on-call backend support during U.S. hours for handling production incidents

Junior Backend Software Engineer
November 2016 – December 2017

- Developed, as one of the first four developers at a fast-paced startup, the core backend service for a secure and privacy focused platform to share sensitive data; using Scala/Java and MongoDB
- Developed and deployed several Python-based data processing microservices on AWS EC2; forming the foundation of the company's core business

EDUCATION

Georgia Institute of Technology
Atlanta,GA

Bachelor of Arts in Computer Science, Focus in AI and Devices
Aug. 2013 – May 2016

SKILLS

Languages: Python (10+ yrs), Scala/Java (9+ yrs), Elixir
Frameworks: FastAPI, Flask, Akka, Phoenix
Databases: PostgreSQL, MongoDB, Redis, Flyway, Alembic
Messaging & Communication: REST APIs, RPC, RabbitMQ
Cloud & DevOps: AWS (S3, EC2), Azure (AKS), Kubernetes, Docker, Jenkins, Helm, Ansible, Nginx
Testing & Automation: Pytest, Selenium, Cucumber/Gherkin
Tools: Git, GitHub, Jira, Postman
Professional: Agile/Scrum, Working with PII, FCRA Compliance, Insurance Domain