# TYLER ALLEN

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

## EXPERIENCE

**EvidentID**                                                                                    Atlanta, GA
*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 data processing microservices using Python on AWS EC2; forming the basis for the companies core business

*Backend Software Engineer*                                                   December 2017 – January 2021

- Led development of an automated background check service in Python, integrating data from multiple REST/SOAP APIs, using NLP and machine learning to extract and validate information against customer profiles and ensuring FCRA compliance; this service generated 50% of company revenue during this time
- Implemented comprehensive end-to-end automated testing with Pytest, Selenium, and Cucumber/Gherkin; enabling comprehensive regression testing
- Configured Jenkins workflows for CI/CD, ensuring high code quality and automatic deployments
- Implemented an event-driven architecture using RabbitMQ to handle notification workflows and trigger data processing, improving performance and system scalability
- Developed and maintained a REST API in Elixir Phoenix with PostgreSQL to update customer configuration; enabling self-service and a 90% reduction in onboarding time for new customers
- Served as on-call backend support during U.S. hours for production issues

*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 custom PyTorch CNN that was used to classify background check data; reducing classifications that require human review by 50% and review time by 90%
- Led development of a Flask REST API for centralizing notification and branding configs in PostgreSQL; implemented OAuth and API-key authentication
- Led the development of a python FastAPI authentication service on AKS via Emissary API Gateway; collaborated with frontend developers and DevOps to ensure OAuth-based access worked correctly
- Worked with an international remote team to develop an insurance document verification service implemented in Scala using Akka, and PostgreSQL; specifically developed an API to submit documents to AWS S3
- Implemented new workflows reducing the time to develop 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 to both development and production environments

## 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