

David Ankin

Java Developer experienced in microservice and agile development looking for an opportunity to work on a central organizational role

Experience

TriplePlayPay, Remote — *Founding Engineer*

FEB 2024 - PRESENT

Employee #8, Engineer #4, developed API and web applications to support a Payment Facilitator business already in motion. Increased company's profitability, converted all infrastructure to terraform, developed scheduling and data processing utilities, and new payment features, while not permitted to ship breaking changes (live customers). Demoed new features to perspective and existing clients, debugged payment settlement with internal and external partners. Python, AWS, terraform, spring/java.

BNY Mellon, Pittsburgh — *Cloud Engineer*

JUNE 2023 - MAR 2024

Successor-lead engineer on infrastructure project to deploy isolated Azure landing zone, mirroring all requirements from scratch (scanning HCP Packer images, environment promotion, novel security requirements for ground-up separate Azure tenant redesign with segregation of duties, custom AD sync automation, etc)

Ford, Pittsburgh — *Software Engineer, Team Anchor*

MAY 2022 - JUNE 2023

Engineer #1 on Ford's Industrial Internet of Things for Manufacturing Quality and Traceability team. Microservice/full stack development, junior mentorship. OpenShift, MongoDB operator, HiveMQ, RabbitMQ, Splunk, ADFS, PCF, Spring Cloud Stream/Dataflow, JUnit, Testcontainers, Angular, PrimeNG, nginx, jib cli.

3M/M*Modal, Pittsburgh — *Software Engineer*

JUNE 2020 - APRIL 2022

FHIR API implementation (<https://hl7.org/FHIR/>) + searching, PHI logging, API Gateway, service mesh sidecars and other supporting microservices (batch processing, auditing, etc), with new features (search, RPC, new events published) as necessary to support 3M integrations. (Gradle, Spring, Micronaut, Cassandra, Kafka, Docker, AWS, S3, Testcontainers). Received great mentorship to kick-start my career and fall in love with Spring framework.

MK Elections, Pittsburgh — *Software Developer*

JUNE 2019 - JANUARY 2022

Transitioned Desktop application for managing election processes from vendor to in-house. (SQL Server, S3, WinForms, writing docs for co-workers/management).

Lean On Me, Cambridge — *Software Developer*

JUNE 2016 - SEPTEMBER 2016

Connected students to peers for support via forwarded SMS messages. Adapted Python Twilio script for use w/full stack Node.js application. Proved value of modular adaptable code by adapting for campus events. Deployed to Digital Ocean.

Education

University of Pittsburgh — *BS Computer Science*, '19 Aug '17 - Dec '19

SUNY Stony Brook, Stony Brook AugMay '17

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Skills

Java, Spring, Gradle, IntelliJ, SQL, CQL, Web development (Typescript, Vite, React, Node.js, Angular), Python, C#

Database Schema design (Relational, KV store (Cassandra, DynamoDB))

OOP design, Kafka, RabbitMQ, Message Bus, Async architecture

Linux, Vim, Git, BASH, Jenkins, Ansible, Cloud Foundry

Projects

Testcontainers Python maintainer

Solicit and Merge PR's, initially for BNY needs (merging long standing PR from Gerard Venzl, Senior director of product for Oracle DB for supporting up-to-date Oracle images in Testcontainers - in prominent use at BNY, educating new contributors about python poetry, semantic commits, release-please, working with Docker, Inc staff to restore readthedocs documentation, and other functionality)

Self-signed HTTPS Customizer

Library for automatically adding self-signed TLS certificates to Spring Boot applications (for use in kubernetes environments). github.com/alexanderankin/java-projects/tree/main/lib/spring/https-customizer-autoconfigure

Relational data for Cassandra

Created an annotation based system for performing FHIR searches not unlike javax.persistence, reducing code complexity and maintenance burden. (3M code)