

David Ankin

Java Dev working with microservices, seeking an opportunity to advance my skills in backend and solve interesting problems with them at scale.

Experience

3M/M*Modal, Pittsburgh — Software Developer

JUNE 2020 - PRESENT

Full time position. Microservices with Java in the healthcare space with "fhir" Fast Health Interoperability Resources, using: Gradle, Spring, Cassandra, Kafka, Docker/AWS, etc...

Responsibilities included: software development, software design, automated and integration testing (junit, docker-compose, testcontainers, maintaining postman collections, creating and debugging jenkins ci jobs), working with software and solutions architects to solve unique problems, scaling services with kafka, mitigating consumer lag, mentoring co-workers, maintaining cross team tools for developer and integration environments, writing wiki articles.

Our team owned the 'FHIR API' implementation, with new features necessary as with every new 3M team integrated, as well as services for PHI logging, API Gateway, sidecars and other supporting microservices (batch processing, etc).

MK Elections, Pittsburgh — Software Developer

JUNE 2019 - JANUARY 2022

Internship, then part time salaried position. Technologies used: Microsoft SQL, DotNET framework. The main project was a Windows Forms application which handles all Business Processes at MKE. I transitioned the project from previous vendor support, changed key functionality for auditing and processing ballots, added new features when needed for MK clients.

Lean On Me, Cambridge — Software Developer

JUNE 2016 - SEPTEMBER 2016

Main task was to rewrite the core application from python into a well structured Node.js web application. Technologies used included Twilio, Firebase, Single Page App design, Nginx, Digital Ocean, Node.js.

Education

University of Pittsburgh, Pittsburgh — BS Computer Science, '19

AUGUST 2017 - DECEMBER 2019

SUNY Stony Brook, Stony Brook

AUGUST 2014 - MAY 2017

Coursework

Cloud Computing, Pitt — Fall 2019

Gained Experience with administrating AWS, working with S3, DynamoDB, Cloudera Hadoop Cluster, and Docker containerized environment. Assignments included deploying to AWS, GCP, Azure, implementing common Map Reduce algorithms like "Customers who bought this item also bought", "Word Count", and "Inverted Indexing". Final project was a Web-based application to generate and browse the results of the Inverted Index algorithm developed in Java and React, deployed with Maven and Docker.

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Skills

Java, Spring, Gradle, IntelliJ, SQL, Web development technologies (React, Node.js), Python, C#

Database Schema design (Relational, Cassandra)

OOP design, Kafka, Message Bus, Async architecture

Linux, Vim, Git, BASH, Ansible, Jenkins

Projects

Cassandra for relational data

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

Upgrade central library dependencies

Made an impact for new apps on my team by upgrading our shared library code to the latest java, gradle, & spring. (3M code)

Create React JQuery Plugin

Webpack-based Starter Kit for scaffolding a JQuery plugin with React + Redux libraries.

github.com/alexanderankin/create-react-jquery-plugin

Open Source Maintenance

Updated fpdf2 python package: fixed features and added tests, forked from pyfpdf, originally for client demo. Updated Sublime Bootstrap 4 text editor plugin after original maintainer abandoned.

github.com/alexanderankin/pyfpdf

github.com/alexanderankin/sublime-bootstrap4