

# AKASH MURTHY

SOFTWARE DEVELOPER / UDEMY INSTRUCTOR

## CONTACT

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## EDUCATION

### M.Sc, Audio Technology

NUI Maynooth  
Maynooth, Kildare | 2017

### B.Sc, Computer Science

JSS Institute  
Bangalore, India | 2014

## SKILLS

### Languages

- Java 11
- Apache Spark Core / SQL
- Javascript ES6 + React JS
- C++ 17
- HTML, CSS

### Testing

- JUnit 5, Mockito, Wiremock for unit testing
- Cucumber for Integration testing
- Test Driven Development

### Frameworks / Methodology

- Spring Boot and Microservices
- Docker and container deployment
- REST and Stream processing

## PROFILE

I am an ambitious and highly resilient individual and pride myself in getting the job done, no matter how challenging the conditions are. I am self-driven when working on something new and enjoy core Java backend development, cloud integration, data analytics, UI design and strive towards full stack development.

## EXPERIENCE (5+ YEARS)

### FREELANCE C++ DEVELOPER, **THE AUDIO PROGRAMMER**

DUBLIN | **JANUARY 2021 - PRESENT**

At The Audio Programmer, I help deliver pro-audio plugins for clients. These plugins are used by musicians and producers to create and enhance music.

- I use C++ 17, CMake and the JUCE application framework for creating and building real-time, thread-safe audio applications from start to finish.
- Delivered several audio plugins including a multi-FX chain, a sampler-sequencer and currently working on several more.
- Architected a CI-CD pipeline via Jenkins and Groovy pipeline scripting to enable builds, validation and delivery upon every feature completion.

### INTERMEDIATE JAVA DEVELOPER, **EQUIFAX INC.**

DUBLIN | **JUNE 2017 - JULY 2021**

At Equifax, I was part of the research and development team tasked at creating resilient internal backend applications, optimizing legacy processes and workflows, migrating them to the cloud.

- Created a generic Onboarding platform for onboarding data providers with a decisioning system to provide customized flows for each client. Services were encapsulated as Spring Boot microservice containers and managed via ECS.
- Leveraged Spark Java library to write Big Data processing applications, processing billing batch data with constant loads of 100M records a day, and deployed in a managed cluster in AWS EMR.
- Wrote a data processing pipeline which hosted an API with authentication and authorisation to accept streams of data, and performed real-time processing of these streams by leveraging AWS Kinesis.
- Architected and developed an entitlement system, including a rich customizable array of roles, security functions, scopes and resources for fine grained authorization of internal users.

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## SKILLS (CONTINUED)

### Cloud Proficiency (AWS)

- EC2, Lambda, S3, DynamoDB, SNS, SQS, Kinesis, EBS, EMR, ECS

### Cloud Proficiency (GCP)

- Compute Engine, Kubernetes Engine, Spanner, Firestore, Pubsub, Apigee

### Database

- MySQL, PostgreSQL, Spanner for relational databases
- DynamoDB and Firestore for NoSql database

### CI / CD

- Git
- Jenkins
- Octopus Deploy
- Sonar Qube for quality assurance
- Fortify on Demand for Sign off

## CERTIFICATIONS

### Oracle Certified Associate, Java SE 8 Programmer

Oracle | October 2018

## INTERESTS

Writing and playing music, long distance backpacking, running, cycling, kayaking, charcoal sketching, drone photography

## EXPERIENCE (CONTINUED)

### PART-TIME LECTURER, MAYNOOTH UNIVERSITY

MAYNOOTH, KILDARE | **SEPTEMBER 2019 - AUGUST 2020**

Lectured at Maynooth University, as part of the module Music Systems Programming in MA Audio Technology. I delivered a custom course for a year covering two semesters and several assignments.

- Customized programming for a beginner course with Modern C++17.
- The first semester was composed of programming concepts, algorithms and basic audio input and output.
- The second semester was composed of Digital Signal Processing of audio signals, processing and manipulating audio signals, and playback and recording of audio through the JUCE framework for C++

### E-COMMERCE WEB DEVELOPER, WIPRO TECHNOLOGIES

BANGALORE, INDIA | **JULY 2014 - FEBRUARY 2016**

- Provided E-commerce solutions for the client Pitney Bowes, through IBM WCS and RESTful web services
- Built extensive web applications using Java's Struts framework, enclosed within an AngularJS framework with JSON callbacks.

## PERSONAL PROJECTS

- Instructor at Udemy, with a highest rated course in its category
- Developed an visual synth using React JS and Tone JS
- Developed an Alexa skill for querying events from Eventful's public API and hosted it as a invokable service on AWS Lambda.
- Wrote an Audio DSP processing library in C++

## REFERENCES

**PATRICK O'SULLIVAN**  
*Intermediate Java Developer*  
Equifax Inc.  
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