

# STEPHEN PAUL ADITHELA

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## EDUCATION

### INDIANA UNIVERSITY

M.S. IN COMPUTER SCIENCE

May 2018 | GPA: 3.71/4.0

### GANDHI INSTITUTE OF TECHNOLOGY

B.TECH IN COMPUTER SCIENCE

May 2016 | GPA: 8.9/10.0

## COURSEWORK

Software Engineering

Algorithms Design and Analysis

Advanced Operating Systems

Object-oriented Software Development

Science Gateway Architectures

Database Design

Object-oriented Software Management

Big Data

Networking and Security

Machine Learning

## SKILLS

### PROGRAMMING

Java • JavaScript • Python • Shell

### DATABASES

MySQL • Mongo DB • PostgreSQL

### BACKEND

Django • Laravel • Spring • openJPA

Docker • Ansible • Kafka • Kubernetes

### FRONTEND

HTML • jQuery • React • Vue • CSS

### MISC

REST • GIT • Travis CI • Jenkins

Linux • AWS • SOA • MVC • Android

## RESEARCH

### CRI HOMESHARE INITIATIVE

Aug 2017 to Jan 2018

- Worked under Prof. Kay Connelly to develop an evaluation framework for researchers to extract and study data from home sensors.

- Developed a Spring Boot Java Gateway API to serve data to tablet application and web application.

## EXPERIENCE

### GRADUATE RESEARCH INTERN | INDIANA UNIVERSITY (UIITS)

Dec 2017 to June 2018 | Bloomington, IN

- Open source contribution to Apache Airavata software and its components.
- Integrated and Deployed the Vue JS Groups Module into production to enable group-based authentication feature.
- Integrated CMS functionalities to enable Gateway Researchers build, manage and deploy their websites dynamically.
- Modified the existing Ansible Playbooks to include the new functionality and deployed to test servers.

### WEB DEVELOPEMENT INTERN | IU COMMUNICATIONS

June 2017 – Dec 2017 | Bloomington, IN

- Worked with the Communications team to maintain web applications and databases for more than 50000 IU students.
- Simplified the data management process for each school representative by building an application which can securely perform CRUD operations .
- Wrote utility Shell Scripts in Centos Servers to schedule timely log archiving.

### STUDENT INTERN | INDIANA UNIVERSITY (UIITS)

Jan 2017 – June 2017 | Bloomington, IN

- Worked on-site with the Enterprise Systems team at UIITS to redesign a core application into a hybrid application using React and Redux.
- Contributed to developing a secure gateway API using Java, Spring Boot and Open JPA to serve data from IU Servers.
- Unit tested every component and configured Travis CI to automate the testing during the build and deployment process.

## PROJECTS

### APACHE AIRAVATA | OPENSOURCE CONTRIBUTION

- Contributed to Open source Apache Airavata to close 6 major JIRA Issues and fixed potential bugs in the Production.
- Wrote a helix task which separately handles the input data staging tasks from the Kafka queue to increase throughput.

### MEDION

- Developed a native Android Application using Java and Android SDK which lets users in distant places meet efficiently.
- Developed a Java Spring API Server which will calculate median GeoCoordinates of all users and serve restaurant data at that point.

### IU SOCIAL

- Built a social network for Indiana University students to chat, share messages and private opinions about the professors courses.
- Worked as a team of 3 people, Validated the students using IU Email and integrated with IU central authentication service.

### KAFKA CLUSTER

- Created three AWS EC2 Ubuntu Instances and deployed Zookeeper Quorum of 3 nodes and a Kafka Cluster with a replication factor of 3.
- Wrote Ansible Galaxy roles and respective playbooks to automate the server configuration and the deployment strategy.