

# Stephen Paul Adithela

<https://www.github.com/stephenpaul2727>

<https://www.linkedin.com/in/stephen-paul-adithela-9b8793114/>

<http://stephenpaul.us>

2665 E 7<sup>th</sup> Street, Apt. D  
Bloomington Indiana 47408

Phone: (812) 955-1395  
E-Mail: [stephenpaul2727@gmail.com](mailto:stephenpaul2727@gmail.com)

## Education

**Indiana University** Bloomington, Indiana

May 2018

Master of Science in Computer Science (GPA: 3.52)

**Gandhi Institute of Technology and Management**, Visakhapatnam, India

May 2016

Bachelor of Technology in Computer Science (GPA: 8.8)

## Technical Skills

**Programming/Languages:** Java, PHP, JavaScript, SQL, C++, Python, Object-oriented Design

**Databases/Management:** MySQL, PostgreSQL, SQL Server, Oracle 10.x, Mongo DB, Redis, Solr

**Web Technologies:** HTML, Spring Boot, Node JS, HTTP, Laravel, jQuery, AJAX, DOM, Bootstrap, React JS, Angular JS, CSS

**Testing/Frameworks:** JUnit, Mockito, Enzyme, Jest, Chai, Mocha

**Cloud, CI/CD:** Docker, Travis CI, AWS, Heroku, Jenkins, RabbitMQ, Kubernetes, Zookeeper, Ansible

**API/Other:** REST, Firebase Cloud, OpenStack, Qualtrics, Google Maps, Google Places, GIT, Linux, Apache Tomcat, SOA

## Work Experience

**Research and Development Assistant | HomeSHARE Indiana University**

August 2017 to present

(Java, Spring Boot, Node Express, Android, Angular JS, Firebase, AJAX, HTML, CSS, Mongo DB, Bootstrap, Rest API, Google API)

- National Science Foundation Funded project to study health through setting up smart homes lead by IU Dean Katherine Connelly.
- Developing Microservices using Java Spring, Node Express and Firebase for the smart home devices like phones and smart watches.
- Getting Smart Watch/Home Sensor status through API's and app for sending notifications to thousands of Participants/Researchers.

**Web Developer | Indiana University**

June 2017 to present

(PHP, Laravel, Vue JS, MySQL, JavaScript, jQuery, XML, AJAX, HTTP, HTML, CSS, XSLT, Linux, Bootstrap)

- Developing Enterprise level highly scalable Web Applications, which will accessible to more than 50000 Indiana University students.
- Developing API's to automatically transform large XML data sets provided by all the schools of Indiana University.
- Managing and maintaining different MySQL databases and Apache Server configurations for more than 300 websites hosted at IU.

**Application Development Internship | University Information Technology Services**

January 2017 to May 2017

(Java, React JS, Redux, ES Lint, Babel, Enzyme, Jest, Code Climate, Travis CI, AJAX, Rest API)

- Developed [Action list](#) Mobile Application to manage tasks for nearly 100000 Indiana University Students and Employees.
- Followed Scrum Methodology to develop this large-scale enterprise level application as a team of 5 people.
- Implemented using the latest React Framework with Redux to provide scalable architecture and integrations to cloud for messaging.

**Web Developer Internship | HCL Technologies**

April 2015 to June 2015

(PHP, JavaScript, HTML, CSS, jQuery, AJAX, HTTP, Linux, Apache Tomcat, MySQL)

- Making essential changes to core PHP codebase, fixing efficiency issues and unit testing the Web Application.
- Led an internal Hackathon of 5 people towards the completion of a Study Portal design to help students preparing for interviews.
- Followed the principles and techniques of Agile/Scrum Software Development Life Cycle.

## Projects

**Apache Airavata** (Java, Thrift API, Micro Services, PHP, Node JS, AJAX, SOA, RabbitMQ, Docker, Apache Jenkins, ZooKeeper, Rest API)

- Open Source contributor to Apache [Airavata Gateway](#) and Apache Airavata Core Repository.
- Implement new features to Airavata Gateway, which powers [SEAGRID](#), which in turn deploys scientific applications to supercomputers.
- Containerize and orchestrate distributed Airavata components using Kubernetes, docker and deployment using OpenStack API.
- Modifying Ansible Scripts and write new Dockerfiles to containerize various modules of Apache Airavata Software.

**Medion** (Java, Spring Boot, Android SDK, SQLite, Google Maps, Google Places, Firebase API, PostgreSQL, Rest API)

- Native Android Application, which suggests restaurants for the user groups to meet at median point of all users in a group.
- User can add people to group and our algorithm calculates effective location of each user and suggests places using Google places.
- A Java Spring Boot App, which handles the database, notification requests from the mobile application, firebase and Google Maps.

**IU Social** (PHP, MySQL, Vanilla JS Bootstrap, JQuery, Rest API, AJAX, HTML, CSS, HTTP)

- Developed a major social networking website for Indiana University students and its professors using Object-Oriented Principles.
- Users can create an account, delete their existing account, change password, create pages, add people to groups as admin.
- Users can send connection requests, chat with connections, share videos and photos, has like comment and share functionality.

**Action List API** (Java, Spring Boot, Liquibase, h2DB, Rest API, Travis CI, CSS, HTML, HTTP, DOM)

- A simple Micro Service to facilitate Authentication using Spring Security and Continuous integration through Travis CI.
- Application is scalable and will be used to support more than 50000 students at Indiana University to provide data to Action List App.
- Rest Application to send and receive JSON data from IU Secure Servers to the React Native based Mobile Application.

**Game Maker** (Java, Spring, Swing, Mockito, Bamboo, JIRA, Maven, Thymeleaf, Spring MVC, Hibernate, WebStart)

- Native Java Desktop and Web Application which uses to generate dynamic ATARI games using Java Swing/Spring Components
- Users can create a game dynamically by using drag and drop mechanism and can save the game creation progress at any time.
- Users can constrain the game design by adding scores, speed of the sprites and setting termination conditions.