

# Ashok Koduru

SOFTWARE ENGINEER · FULL STACK WEB DEVELOPER · SECURITY ENTHUSIAST

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## Work Experience

### Kuliza Technologies

Bangalore, India

SOFTWARE DEVELOPER

Aug. 2015 - Jul. 2016

- Developed the website MyfileRunner using Angular.js, PHP and SOAP API to assist clients in legal filings and help courts.
- Created REST APIs using Django for Mobile and Web applications to simplify asynchronous data retrieval across multi-platform web apps.
- Built an internal web portal for managing employee attendance and leave tracking using Node.js with features like managing payroll

### MAQ Softwares

Hyderabad, India

SOFTWARE DEVELOPER INTERN

Jan. 2015 - Jul. 2015

- Created real time data reports in Angular.js and MongoDB for Microsoft to help visually manage the partners by their statistics.
- Built an IDE plugin for Visual Studio using Node.js to parse the HTML and CSS and update the live browser reducing the loadtime of the page

## Education

### NEU (Northeastern University)

Boston, USA

M.S. IN COMPUTER SCIENCE - 3.5/4.0

Sept. 2016 - Exp. Dec. 2018

- Functional Programming; Information Retrieval; Algorithms; Network Security; Managing Software Development; Artificial Intelligence

### DAIICT (Dhirubhai Ambani Institute of ICT)

Gujarat, India

B.E. IN COMPUTER SCIENCE - 7.4/10

Jul. 2011 - May 2015

- Algorithms; DBMS; Computer Network Security; Operating Systems; Software Engineering; Discrete Mathematics; Image Processing

## Skills

#### Languages

Java, C/C++, Python, Scheme, SQL

#### Frontend Web Design

HTML5, CSS3, Javascript, JQuery, Angular.js, Angular 2, React.js, Redux, LESS, SASS

#### Backend Web Technologies

SOAP and REST API, Node.js, Express, PHP (Laravel), Django, Git, PostgreSQL, MySQL, Cordova, Firebase

## Technical Projects

### Boston School Routing

JAVA, AGILE

- Implemented a multi-threaded routing algorithm in Java to effectively route the buses between the bus-stops and schools preventing the deadhead time potentially saving millions to the Boston Public Schools.

### Secure Messenger

PYTHON, SOCKETS, NETWORK SECURITY

🔗 Source

- Developed a secure communication protocol with the use of network security algorithms which aids multi way communication with data stored at a predefined server and detect adversaries and their activity in real time

### Text Based Search Engine

PYTHON, SOCKETS, INFORMATION RETRIEVAL

🔗 Source

- Used crawled information to build a search engine based on the retrieval models like BM25 and TFIDF. Improved the search accuracy by adding the page rank algorithm including the context matching

## Extra Projects

**IRC-Chatroom**, A clone of IRC chatroom implemented using Node.js, Sockets.io and Express

🔗 Source

**Typing.js**, A micro-plugin written in Javascript to emulate the typing animation effect in browser

🔗 Source

**At Your Service**, A facebook messenger bot written in Javascript to suggest movies and food places around the user

🔗 Source