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 stack the documents.
- 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 comparing 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, LaTeX
Frontend Web Design	HTML5, CSS3, Javascript, JQuery, Angular.js, Angular 2, React.js, Express, Redux, LESS, SASS
Backend Web Technologies	SOAP and REST API, Node.js, 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*