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Available: Jan - Aug 2018

Ashok Koduru

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Education

Boston, MA	Northeastern University	Sept 2016 – Present
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- M.S. in Computer Science, Expected in May 2018. GPA: 3.5
- Graduate Coursework: Functional Programming; Information Retrieval; Algorithms; Network Security

Gandhinagar, India	Dhirubhai Ambani Inst. of ICT	July 2011 – May 2015
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- B.E. in Computer Science with Minor in Information Technology, May 2015. GPA: 7.4/10.
- Undergraduate Coursework: Algorithms; Computer Architecture; Database Management; Computer Networks; Operating Systems; Software Engineering; Discrete Mathematics

Employment

Software Developer	Kuliza Technologies	Sept 2015 – July 2016
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- Developed the website MyfileRunner using Angular.js, PHP and SOAP API to assist clients in legal filings.
- Created REST APIs using Django for Mobile and Web applications to simplify data retrieval for web apps.
- Created an internal web portal for managing employee attendance and leave tracking using Node.js

Software Developer Intern	MAQ Softwares	Jan – July 2015
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- Created real time data reports in Angular.js for Microsoft to help manage 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.

Languages and Technologies

Languages:	Java, C/C++, Python, Scheme, SQL
Frontend Web Design:	HTML, CSS, Javascript, JQuery, Angular.js, Angular 2/TypeScript, React.js
Backend Web Technologies:	SOAP and REST API, Node.js, PHP (Laravel), Django
Tools & Technologies:	Git, PostgreSQL, MySQL, Unix/Linux, Ionic/Cordova, Firebase

Technical Experience

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- **OutdoorNinja:** Developing a hybrid app for hikers using Apache Cordova and Ionic Framework which lets the user see the location and profile data retrieved from an API custom built from raw data stored in Firebase.
 - **Secure Messenger:** Developed a secure communication protocol with the use of network security algorithms which aids multi way communication with data stored at a predefined server. This was used to build a multi user secure chat room with a way to detect adversaries and their activity in real time.
 - **Search Engine:** 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.
 - **On-LAN Chat:** Built an off-line chat messenger which runs on LAN using C#. Features include Audio/Video Conferencing, Remote Desktop, limitless file transfer and snipping tool. Developed an Android app to share the desktop screen to mobile and push the call and text notifications to desktop chat messenger.
 - **BASH Shell:** Implemented a multi-threaded POSIX shell in Linux with fragmented memory management by rewriting the functions of built in shell and built a wrapper around it to communicate through sockets .
 - **Web Development:** Built an online multi-player card game using Node.js and a budget tracking web app using Angular.js and Node.js which sends daily email reminders to registered users.