

MUKUND MANIKARNIKE

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CAREER SUMMARY

- Pursuing Master's degree (Computer Science Major) at Arizona State University seeking a full-time job.
- 2 years of work experience in application development and 3 years in WLAN protocols.
- Expertise in Java, C, Python and Web applications, Main Memory Databases, WLAN protocols.

EDUCATION

Arizona State University – Tempe, Arizona, USA

July 2016

Master of Computer Science

GPA: 3.57/4.0

Relevant Courses: Distributed Software Development, Advances in Databases, Database Management System Implementation, Data Mining, Statistical Machine learning, Social Media Mining, Advanced Operating Systems, Applied Cryptography, Game Theory with Applications, Multimedia Information Systems,

PES Institute of Technology – Bangalore, India

June 2011

Bachelor of Science, Information Science and Engineering

GPA: 8.02/10.0

Relevant Courses: Analysis and Design of Algorithms, Data Structures, Database Management Systems, Software Engineering, Operating Systems, Computer Networks, Mobile Computing

EXPERIENCE

Arizona State University – Tempe, Arizona, USA

Feb 2015 to Feb 2016

Graduate Student Assistant, School of Sustainability and Engineering

Desktop application called [PrioriTox](#) for toxicity analysis in Java (Programming Language – Java)

- Built all parts of the application from scratch and an MS Windows installer
 - Generating uniform, normal distributions using [Apache Commons](#) library and interacting with MS Excel macros programmatically to generate emission toxicity levels to air, water and soil.
 - Visualizing results graphically using [JFreeChart](#) histograms and rank correlations.

Ittiam Systems Pvt. Ltd. – Bangalore, India

June 2014 to Dec 2014

Senior Engineer, Media Cloud Services Group

Web Application using [YII Framework](#) for Transcoding on a cloud platform

- Made design decisions in building the web application and required REST services to carry out transcoding.
- Brought up a framework using Vagrant and Chef for development and testing on a virtual machine setup.

Ittiam Systems Pvt. Ltd. – Bangalore, India

July 2011 to May 2014

Senior Engineer, Communications SOC Group

WLAN MAC Layer protocol development (Programming Language – C)

- Implemented features like Sniffer, Frame Injector, External Supplicant, authenticator, WPS.
- Single point of contact for several customers to complete Wi-Fi Certification and Connectivity Chip tapeouts.
 - Solved issues related to low throughputs, inter-operability, memory corruptions and link losses.

ACADEMIC PROJECTS

SOAP Explore (C#) – Search application to find SOAP services using Google's APIs - mmanikar.com/SOAPExplore/

Restaurant Recommender System (Python) – Recommender built on Yelp Data using Sci Kit Learn libraries.

Main Memory Database (C, Java) – Performance comparison of indexing techniques on Main Memory Databases.

Twitter Hashtag Prediction (Python) - Prediction of twitter hashtags through supervised learning.

Cryptographic algorithms (C) – Designed and implemented algorithms for encryption and breaking password hashes.

More projects available at - <http://mmanikar.com/mmanikar/Documents/Projects/Projects>

ACHIEVEMENTS

Secured 3rd place in the 2nd Annual Code Challenge conducted by [SoDA](#) at ASU

February 2016

Spot Award for development of an inventory tracking system

August 2013

TECHNICAL SKILLS

Programming Languages: Java, C/C++, C#, Python, HTML, CSS, Javascript

Technologies: REST and SOAP services, MySQL, MongoDB, RAMDisk

Tools: Eclipse, Netbeans, Chef, Vagrant, Microsoft Office