**Ajinkya A. Kale**

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**Summary:** Experienced, educated, and self-motivated engineer with significant development experience.

# EDUCATION

**Rochester Institute of Technology, Rochester NY (Graduation date: May 2016)**

* Master of Science in Computer Science
* Courses: Algorithm design and development, Cryptography, Artificial Intelligence, Machine Learning, Pervasive and Mobile Computing, Intelligent Security Systems, Scripting Languages

# University Of Mumbai, India (Graduation date: May 2013)

* Bachelor of Engineering in Computer Engineering
* Courses: Algorithms and Data Structures, Computer Networks, Soft Computing, Security Systems, Database Concepts, Microprocessors, Applied Mathematics

# TECHNICAL SKILLS

* **Languages:** Python, C#, Java, JavaScript, HTML 5, CSS
* **Web technologies:** ASP.NET, Angular JS, Bower, Npm, HighChart JS
* **Build Tools / version control:** Grunt, Gulp, Jenkins, Git
* **Tools / IDE:** Visual Studio, Eclipse, SourceTree
* **Database:** MySQL, SQL Server
* **Platforms:** Windows, Linux, Raspberry Pi

# EXPERIENCE

**Software Engineer, FactSet Research Systems Inc, Norwalk, CT July 2016 – present**

* Designed andEngineered a testing infrastructure backend for content quality across platforms using Python
* Developed web application tool for testing infrastructure that facilitates environment configuration definition, schedule test runs and view complex results. Technologies used Angular JS, ASP.NET C# and HighChart JS
* Designed and implemented interface that enables users to create and interact with formula execution environment
* Engineered a usage logging web application which aims at solving client usage problem using data visualization
* Managed and mentored summer intern in various aspects of software engineering

**Software Engineer Intern, MotionSavvy Inc. Rochester, New York May 2015 - August 2015**

* Developed machine translation software for converting American Sign Language to English
* Implemented classifier for sign language alphabets using machine learning algorithms
* Used virtual reality device, Leap Motion to perform gesture recognition
* Research and development of Natural Language Processing framework for American Sign Language

# Software Developer Co-op, Ethany Corporation, Rochester, New York September 2015 – December 2015

* Developed a visitor logging web application called Vpass
* Performed technology upgrade using Asp.net MVC 5 architecture
* Created dynamic, responsive web pages using Razor

# PROJECTS

**Distributed Computation on Raspberry Pi network April 2015 - May 2015**

* Designed and developed a distributed master slave framework to solve the problem of sorting on large dataset
* External merge sort algorithm was used for computation using limited memory resources
* Scalability and Fault tolerance issues were addressed
* Performed unit testing and integration testing

**IoT Application for smart environment Feb 2015 - March 2015**

* Engineered an IoT application for window blinds using Raspberry Pi B+
* Developed a sense and control system to control blinds by Fuzzy Controller using temperature and light sensors
* Used JSON RPC as communication protocol between Raspberry Pi B+ server and client Android app
* Followed Agile methodology for development

**Testing Subgraph Isomorphism using QuickSI algorithm February 2016 – April 2016**

* Solving the problem of subgraph containment query in graph database
* Devised an efficient implementation of QuickSI for testing subgraph isomorphism in Java

# Detection of suspicious URL November 2015 – December 2015

* Performed data analysis and data cleaning on the URL feature dataset
* Used logistic regression algorithm to detect websites with malicious content

**Block cipher SPECK and reduced round attack June 2014 - August 2014**

* Authored implementation of block cipher SPECK using bit manipulation technique in Java
* Devised an efficient cipher attack up to 3 rounds
* Implemented CPU profiling in order to improve efficiency