Ajinkya A Kale

36 Ferris Ave, Unit B2, Norwalk CT-06854 | LinkedIn | Github | aak9225@rit.edu | 585-298-4226

Summary: Experienced, self-motivated engineer interested in solving complex problems with backend engineering.

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#, JavaScript, Java, HTML 5, CSS
- **Web technologies:** Angular.js, Flask, ASP.NET, RESTful Api, OAuth 2.0, Microsoft Graph Api
- **Build Tools / version control:** Grunt, Jenkins, Git, Perforce
- **Tools / IDE:** Visual Studio, Eclipse, SourceTree, SSMS
- **Database:** SQL Server, Redis, Red Gate
- **Platforms:** Azure, Heroku, Windows, Linux

EXPERIENCE

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

- Engineered a testing infrastructure for content quality across platforms testing data consistency and integrity
- Developed privilege management feature, that sets access restrictions to queries in test execution engine
- Engineered incident management tool, facilitating the engineering teams to mitigate the emergencies via Microsoft Teams, and generate real-time event timeline. Developed using Azure cloud, Graph Api and Python Flask
- Designed and implemented interface that enables users to create and interact with local execution environment
- Technical lead in developing a usage logging web application, that provides analytical insights about the products
- 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