Dinesh Kannan

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EDUCATION

Northeastern University, Boston, Massachusetts, USA   Sep 2015 – Present
Candidate for Master of Science in Computer Science   Graduating Dec '17
Relevant Courses: Algorithms, AI, Machine Learning, Big Data, Web Development   GPA: 3.8 / 4.0
Sastra University   Jun 2011 - May 2015
Bachelor of Technology in Information Technology (Distinction)
Relevant Courses: Data Structures, Operating Systems, Object-Oriented Design, Databases

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TECHNICAL KNOWLEDGE

Languages: Python, JavaScript, Java, Racket (Lisp family)
Web Technologies: NodeJS, AngularJS, D3.js, Ajax, HTML5, CSS, jQuery, Express, Nginx, MochaJS
Big Data: Hadoop MapReduce, Apache Spark
Databases: SQL, MongoDB (NoSQL) | **Operating Systems:** Linux, Windows

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WORK EXPERIENCE

Keen Home, New York, New York   May – Sep 2017
Software Engineer Intern

- Integrated Keen Home's IoT platform with Amazon Alexa voice service
- Built a completely functional Alexa smart home skill adapter with fully automated tests
- Improved platform integration by contributing to the company's OAuth efforts in its development and testing
- Initiated a tech debt cleanup for about 60% of core services of the platform – improving its maintainability
- ***Skills used / developed:*** *NodeJS, AWS Lambda, Serverless, Docker, Automated testing, TDD, Git*

Clean Harbors Inc., Norwell, Massachusetts   Jul – Dec 2016
Software Engineer Intern

- Introduced and initiated the development efforts on an internal analytics application that helps decision making
- Engineered a web-app to control production logs – replacing a manual process saving 98% of time involved
- ***Skills used / developed:*** *C#, REST, MS-SQL, JavaScript, AngluarJS, Teamwork, Communication, Leadership*

Playable Innovative Technologies Lab (PLAIT), Northeastern University   Jan – Jul 2016
Research Assistant

- Improved a game that crowdsources human intelligence inputs to solve problems in software verification
- Built a cloud app for the game to control gameplay, scores, levels, feedback, validations and payments to players
- Improved play rates of the game through enhancing user experience by redesigning key game elements on screen
- ***Skills used / developed:*** *Java, AS3 Nginx, Python, NodeJS, MongoDB, JavaScript, Linux, REST, Git*

Visual BI Solutions, Chennai   Dec 2014 - Apr 2015
Software Developer Intern

- Replaced a manual staff clock-in system with a completely automated one – built a web-app to log and monitor
- Added more data visualizations in SAP Lumira by developing extensions to the tool - CVOM
- Simplified data imports into SAP Lumira for live analysis through building data access extensions
- ***Skills used / developed:*** *Java, Python, D3.js, SQL, SCRUM, Web services*

ACADEMIC PROJECTS

Machine Learning Experiments   Jan – Apr 2017

- Analyzed public disease datasets using statistical and machine learning methods
- Pursued various data-exploration, model-evaluation, feature-selection methods to find the right strategy
- Recorded findings in a Jupyter notebook available at – https://www.github.com/kdin/MachineLearning
- ***Skills used / developed****: Machine Learning, Statistics, Python, scikit-learn*

Distributed Computation of PageRank   Feb 2017

- Experimented with iterative computation of PageRank in a distributed setting
- Parsed Wikipedia articles (2006) and estimated PR using MapReduce and Spark individually and compared them
- ***Skills used / developed****: Java, Hadoop MapReduce, Apache Spark, Scala, HDFS, Amazon AWS, EMR*