

Dinesh Kannan

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<https://www.linkedin.com/in/dineshkan> | <https://github.com/kdin>

EDUCATION

Northeastern University, Boston, Massachusetts, USA

Sep 2015 – Present

Candidate for Master of Science in Computer Science

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

TECHNICAL KNOWLEDGE

Languages:

Python, JavaScript, Java, Scala, Racket (Lisp family), C++, C#

Web Technologies – Front End:

AngularJS, D3.js, Ajax, HTML5, CSS, jQuery

Web Technologies – Back End:

NodeJS, Express, Nginx, REST, Java Spring, Amazon AWS, IIS – C#

Big Data:

Hadoop MapReduce, HDFS, Apache Spark

Databases:

SQL, MongoDB (NoSQL) | **Operating Systems:** Linux, Windows

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
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WORK EXPERIENCE

Keen Home, New York, New York

May 2017 - Present

Software Engineer Intern

- Integrating Keen Home's IoT platform with Amazon Alexa voice service
- Built a completely functional Alexa skill adapter with fully automated tests
- Skills used/developed:** NodeJS, AWS Lambda, Serverless, TDD

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#, Web services, REST, MS-SQL, JavaScript, AngularJS, Teamwork, Communication

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

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 by building data access extensions
- Skills used/developed:** Teamwork, Leadership, Java, Python, D3.js, SQL, SCRUM, Web services