

# 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:**

AngularJS, D3.js, Ajax, HTML5, CSS, jQuery, NodeJS, Express, Nginx

**Big Data:**

Hadoop MapReduce, HDFS, Apache Spark

**Databases:**

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

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## 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**

- Integrated Keen Home's IoT platform with Amazon Alexa voice service
- Built a completely functional Alexa smart home skill adapter with fully automated tests
- Initiated a tech debt cleanup for core services affecting the IoT platform
- Contributed to the company's OAuth efforts in its development and testing
- Skills used/developed:** NodeJS, AWS Lambda, Serverless, 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#, 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, 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