

# VIVEK K. SAH

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## EDUCATION

**Dartmouth College**, Hanover, NH

**June 2018**

*Bachelor of Engineering: Computer Engineering*

**Colby College**, Waterville, ME

**May 2017**

*Bachelor of Arts: Double Major in Computer Science and Mathematics*

**GPA: 3.89/4.00**

*Honors: Dean's List, William D. Adams Presidential Scholar (awarded to the top students in admitted classes)*

**Trinity International College**, Kathmandu, Nepal

**June 2012**

*Cambridge Advanced Levels: Physics, Chemistry, Mathematics and Biology*

## RELEVANT COURSEWORK

Software Design and Implementation (C), Algorithms, Artificial Intelligence (Java), Object Oriented Design (Java), Data Analysis and Visualization (Python), Data Structures (Java), Security and Privacy, Computer Organization (VHDL), Programming languages

## TECHNICAL SKILLS

Languages: Python, Java, C, Shell, HTML, JavaScript

Frameworks/environments: Android, jQuery, Node.js, Rails, MATLAB, Xamarin, Ethereum (Blockchain)

## EXPERIENCE

**New York Life**, Jersey City, NJ

*Application Developer*

**June 2016-August 2016**

- Deployed a cross-platform mobile application which helps employees learn how to use new technology in the office
- Built a private blockchain network and presented on the potential business use cases in the insurance industry

**Thayer School of Engineering**, Hanover, NH

*Machine Shop Instructor*

**September 2015-June 2016**

- Taught students how to use different machines in the shop (Mill, Lathe, 3D printer, Laser Cutter) for their projects
- Trained new instructors to operate those machines

**Wellist**, Boston, MA

*Software Developer Intern*

**June 2015-August 2015**

- Supported the Backbone.js frontend and made sure it does not go down while the backend was being modified
- Optimized the information flow from client side to the server side by 5% by getting rid of data duplication

**Colby College**, Waterville ME

*Teaching Assistant, Mathematical Reasoning*

**February 2014-May 2014**

- Held TA sessions for approximately 20 students to help them in proof-writing
- Graded homework assignments and provided feedback on those assignments

## PROJECTS

**Tiny Search Engine (<http://www.searchengine.vksah.com>)**

**August 2015-Present**

- Developed a search engine in C in a test driven environment to learn about software design principles
- Crawled and indexed close to 1600 webpages on Dartmouth network, and ranked the results based on the frequency of query
- Tied the search engine to a simple frontend (written in HTML5/jQuery) for easier demonstration

**Localbin (<http://localbin.xyz>)**

**December 2015-Present**

- Created a web app using MEAN (Mongo, Express, Angular, Node) stack to quickly share notes and files
- Localbin works like a web-based AirDrop, so it can be used across various operating systems
- Peers have found it useful for sending URLs and files to nearby computers connected to printers

**OnTrack**

**April 2015**

- Led a team of three android developers on an app which lets a group of users share their location across various platforms
- Used Parse as backend service and Google Maps for acquiring location of android smartphone
- Helpful to keep in touch with family members and friends especially while travelling

**Data Analysis Tool**

**February 2015- May 2015**

- Wrote a Python software to 3-D visualize and analyze large data sets
- Performed linear regression, PCA analysis and clustering analysis on Australian Coast climate data
- Classified spam emails with an accuracy of 82.14% using KNN and Naïve-Bayes classifiers (data from UCI Spambase)

## OTHER ACTIVITIES AND INTEREST

Cricket, Swimming, Fencing, Colby International Club, Colby Outing Club