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Nathan Dalal

www.nathandalal.com
github.com/nathandalal

Education

Stanford University
September 2015 — June 2019 (expected)
B.S. Computer Science (minor Education)
GPA: **3.7**
Focus on Artificial Intelligence, Learning, and Teaching

The Harker School
August 2011 — May 2015
GPA 4.35
SAT: 2300

Relevant Coursework

CS 224N: Natural Language Processing	Win 2016 — 2017
CS 229: Machine Learning	Aut 2016 — 2017
CS 110: Principles of Computer Systems	Spr 2015 — 2016
CS 107: Computer Organization and Systems	Win 2015 — 2016

Industry Experience

Gigster June 2016 — September 2016
First Software Engineering Intern (Automation Team) **ReactJS, NodeJS, MongoDB**

- Fixed team sourcing process to generate network developer teams automatically, sped up sourcing times by over 50%
- Maintained internal LinkedIn for the Gigster network, indexing and filtering with ElasticSearch
- Deployed an internal tool to view automation metrics and stream updates over Slack

Stanford Canary Center June 2015 — August 2015
Biology Software Intern (Mallick Lab) **NodeJS, SQL**

- Designed and built a prototype from scratch for a database forum website for biomarkers
- Created a schema for biomarkers that can be edited and annotated by community members

Stanford Institutes of Medicine Summer Research Program (SIMR) June 2014 — August 2014
Research Intern (Gevaert Lab) **R**

- Employed linear modeling to predict oncogenetic expression using copy number and methylation clusters
- Created more accurate predictive models for 24.5% of cancer-causing genes

Passion Projects

CS198 Section Leading Program Fall 2016
Section Leader (TA) **Java, C++**

- Teaching CS 106A in the fall to introductory computer science students
- Follows from being the first Computer Science TA at my high school

National Association for People Against Bullying (NAPAB) Win 2015 — Present
Design, SEO **Squarespace, Google Analytics**

- Compare the site before to the site now at **napab.org**
- Redesigned entire website around goal-oriented user experience, while tracking donation and signup page views

Golden State Warriors Chrome Theme June 2015 — Present
Designer **JavaScript, Photoshop**

- Designed and deployed to the Chrome Web Store at bit.do/warriors_theme
- Fluctuates between 20,000 and 70,000 users depending on how the team is doing :)

South Asian Identity Fall 2015 — Present
Singer @ Raagapella, Financial Officer @ Sanskriti **ReactJS, Mailgun, CSS3**

- Enjoy connecting with my South Asian identity through a cappella and community events
- Developed signup process for auditions and callbacks at raagapella.com
- Update the Sanskriti website with the latest events on campus at sanskriti.stanford.edu

PASCAL Compiler and Interpreter Spring 2015
The Harker School **Java**

- Assembled a recursive descent parser in Java that compiles PASCAL to MIPS instructions and interprets it to console
- Supports functions, scope, integer data type, and user I/O

Multilayer Neural Network Autumn 2015
The Harker School **Java**

- Constructed a perceptron neural network using Java that trains on images.
- Designed for achieving optical character recognition and facial recognition
- Trained to under 1% error for classifying character images by their ASCII values