nathanhd@stanford.edu
(510) 574−6653

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
Love of Learning Award

RELEVANT COURSEWORK

CS 229: Machine Learning	Aut 2016
CS 161: Introduction to Algorithms	Win 2017
CS 124: From Languages to Information (NLP)	Win 2017
CS 110: Principles of Computer Systems	Spr 2016
CS 110: Principles of Computer Systems	Spr 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

Sequoia High School — Fall 2016
Teaching Intern — **Education System**
- Shadowing expert Algebra teacher at Sequoia High School
- Part of service learning class to learn effective methods of teaching and understand US education system

National Association for People Against Bullying (NAPAB) — Win 2015 — Present
User Experience, 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, Airtable**
- 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

Advanced HS Computer Science Projects — Spring 2015
The Harker School — **Java**
- Assembled a recursive descent parser in Java that interprets PASCAL and compiles it to MIPS
- Compiler supports functions, scope, integer data type, and user I/O
- Constructed a perceptron neural network using Java that trains to under 1% error for classifying character images.