

Timothy Deng

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EDUCATION | **University of California, San Diego** *Sept 2015 – June 2019 (expected)*

- BS in computer science, minor in cognitive science, senior standing
- 3.85 / 4.0 cumulative GPA

COURSEWORK | **Computer Science**

- Discrete Mathematics
- Programming Languages & Paradigms
- Component & Design Technology
- Software Engineering
- Design & Analysis of Algorithms
- Computer Org & Systems
- Advanced Data Structures
- Intro to Theory of Computation
- Intro to Modern Cryptography (*Current*)
- Recommender Systems & Mining (*Current*)

Cognitive Science

- Intro to Machine Learning II (*Current*)
- Modeling & Data Analysis (*Current*)

WORK EXPERIENCE | **Software Engineering Intern, Qualcomm** *San Jose, CA, June 2017 – Sept 2017*

- Porting Qualcomm's internal integration service from utilizing IBM ClearCase to Perforce
- Sends automated emails to team leads on status of current build versions using Python

Software Engineering Intern, Intellecty *San Marcos, CA, June 2016 – Sept 2016*

- Created an iOS Swift application that uses optical character recognition libraries to scan receipts
- Implemented OpenCV C++ algorithms in iOS to preprocess images for Tesseract OCR
- Connected to the ABBYY Cloud OCR API for online recognition
- Used regular expressions to parse output into actionable data along with some Python scripting

Tutor, UCSD Computer Science Department *UCSD, 2017 – Present*

- Tutored & held lab hours for Data Structures, Discrete Math, and Intro to Theory of Computation
- Grades programming assignments, problem sets, and exams

Webmaster and Features Editor, UCSD Guardian *UCSD, 2016 – Present*

- Writes and edits long-form feature articles on topical issues in AP style (see [Guardian](#))
- Conducts, transcribes, and fact-checks interviews
- Revamped [ucsdguardian.org](#) website with custom WordPress PHP code for responsiveness

PERSONAL PROJECTS | **Stop Shop Parking** – JavaScript, HTML, CSS, Firebase *2017*

- Worked with a team of 11 to create a web app that lets two parties swap parking spaces at UCSD
- Used modern technologies like Node, React, and Firebase to implement (see [GitHub](#))

YHack – Java, Perl *2015*

- Developed a chat bot that uses Markov chains and Facebook Messenger data to talk to user
- Identifies conversation topic using keywords to generate appropriate sentences (see [GitHub](#))

DVHS ConnectED Club – PHP, HTML, CSS, SQL *2012 – 2015*

- Designed the club website that helped over 100 club members keep track of volunteer hours
- Can be found at [www.dvhsconnected.com](#), now managed by new club members (see [GitHub](#))

Studhy – PHP, HTML, CSS, SQL *2013*

- Made a crowd-sourced website that provided multiple choice questions in various subjects
- Used MySQL to handle storing questions and answers, received 100s in first week (see [GitHub](#))

TECHNICAL SKILLS | **Languages**

- Java
- Python
- C
- Swift
- PHP
- HTML/CSS
- Perl
- C++
- RISC Assembly
- Bash
- JavaScript
- Mandarin Chinese

Technologies

- MySQL
- Tesseract
- Git & GitHub
- Regular expressions
- UNIX/Linux
- vim