

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
- Muir College Honors Program, Provost Honors every quarter

COURSEWORK | Computer Science

- Discrete Mathematics
- Basic Data Structures & OOP
- Software Tools & Techniques
- Programming Languages
- Component & Design Technology
- Computer Org & Systems
- Advanced Data Structures
- Intro to Theory of Computation
- Software Engineering
- Design and Analysis of Algorithms

Cognitive Science

- Introduction to Data Science

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
- Using Python, Perl, YAML

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 and held lab hours for Data Structures 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
- Manages the [ucsdguardian.org](#) website with WordPress and custom JavaScript code

PERSONAL PROJECTS | 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
- Script for parsing Messenger data written in Perl, chat program written in Java (see [GitHub](#))

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

- Tutored elementary school students at Quail Run Elementary School for math and reading
- 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](#))

Studyhy – 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 of questions in first week
- Supports deletion through downvoting and pdf upload features (see [GitHub](#))

TECHNICAL SKILLS | Languages

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

Technologies

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