

Timothy Deng

tideng@ucsd.edu | (925) 548-1801 | @dengtimmy | **GitHub:** github.com/timdeng2324
LinkedIn: linkedin.com/in/timdeng2324 | **Website:** timdeng2324.github.io

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

- BS in computer science, minor in cognitive science, senior standing
- 3.92 / 4.0 cumulative GPA
- Muir College Honors Program
- Provost Honors every quarter

COURSEWORK | Computer Science

- Introduction to CS & OOP
- Discrete Mathematics
- Algorithms & Systems Analysis
- Basic Data Structures & OOP
- Software Tools & Techniques
- 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, 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

Intern, ArcSoft Fremont, CA, June 2014 – Sept 2014

- Developed a process for quality assurance of ArcSoft's Closeli Simplcams
- Checked packaging for design issues, updated firmware of cameras prior to shipping
- Bug tested hundreds of cameras to ensure the best experience for the customer

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)

Study – 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)

Moozik – PHP, HTML, CSS, JavaScript 2013

- Created a web app that played music relevant to user input using the Rdio JavaScript API
- Used Bootstrap for CSS and implemented on the XAMPP stack

TECHNICAL SKILLS | Languages

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

Technologies

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