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
- 3.92 / 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, Intellecy   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*
- Tutors and holds lab hours for Data Structures to help students understand the material
- Grades programming assignments, problem sets, and exams

Webmaster and Assistant 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

Intern, ArcSoft   Fremont, CA, *June 2014 – Sept 2014*
- Developed a process for quality assurance of ArcSoft's Closeli Simplicams
- 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)

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 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