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
- 3.72 / 4.0 cumulative GPA

COURSEWORK | Computer Science

- Discrete Mathematics
- Programming Languages & Paradigms
- Computer Architecture
- Design & Analysis of Algorithms
- · Al: Search & Reason

Cognitive Science

Modern Cryptography · Recommender Systems & Mining Computer Vision

Theory of Computation

- Database Systems Principles

· Modeling & Data Analysis

· Computer Operating Systems

Advanced Data Structures

• Intro to Data Science

WORK

EXPERIENCE

Software Engineering Intern, Foursquare

New York, NY, June 2018 - Sept 2018

- Pushed features like reverse chronological search, native sharing, and venue page components
- Ran A/B experiments to increase photo uploads on Swarm (worldwide lift of ~2%)

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, 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

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

Webmaster and Features Co-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 |

Al Games - Python

2018

- Created Al agents to solve mazes, 2048, blackjack, Gomoku, and Sudoku
- Used AI search & reasoning algorithms such as A*, minimax, Q-learning (reinforcement), Monte-Carlo tree search, and SAT-solving

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 <u>GitHub</u>)

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 <u>GitHub</u>)

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)

TECHNICAL SKILLS

Languages & Technologies

- Java
- Python

- HTML/CSS
- Git & GitHub

PyTorch

- Objective-C
- · Mandarin Chinese

Swift

JavaScript