

ANDREW NGUYEN

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EDUCATION

Santa Clara University

M.S., Software Engineering, '20
Data Science | **GPA: 4.0**

B.S., Computer Science and Engineering, '19
Back-End Development | **GPA: 3.91**

HONORS/AWARDS

Dean's List (2016-2018)
Distinguished First-Year Student

RELEVANT COURSEWORK

Graduate

Managing Gender & Engineering
Truth, Deduction, & Computation
Formal Methods in Software Engineering
Law, Technology, & Intellectual Property

Undergraduate

OO Programming & Adv. Data Structures
Algorithms
Database Management Systems
Written & Oral Technical Communication
Programming Languages
Statistics & Probability
Embedded Systems
Electric Circuits
Digital VLSI IC
Software Engineering
Computer Networks
Web User Interface and Experience

SKILLS

Languages

C/C++, PL/SQL, Java, Python, JavaScript, PHP

Tools

Linux, Git, Mac, XCode, Eclipse, FPGA,
Synopsys Custom Compiler, Alter Quartus II,
MS Office Suite, Adobe PS/AI

Framworks/Libraries

React, NumPy, Pandas, Node, React-Native,
SciPy, SciKit, TensorFlow, Ext,

Personal

Team-Oriented, Timely-Organized,
Written/Oral Technical Communications,
Creative Problem-Solving

WORK EXPERIENCE

Software Engineer Intern

Incoming Summer 2019

Microsoft

Redmond, WA

- Incoming Summer 2019 Intern-Identity Team

Software Engineer Intern

09/18 - 03/19

Forcepoint

Santa Clara, CA

- Implemented a reliable UI to display threat and log reports, improving readability and core functional requirements
- Developed automated testing, significantly improving testing speed from minutes to seconds
- Utilized parallel programming to parse, pipeline, and detect malicious activity from user logs

Software Engineer Intern

06/18 - 09/18

Fujitsu Network Communications

Sunnyvale, CA

- Implement an intelligence logging algorithm using supervised learning to efficiently filter logs
- Develop a Front-End UI with Ext.Js and Cassandra for users to easily access the log information in seconds
- Created a syntax highlighting engine to color, highlight, and emphasize important texts in logs, increasing user experience

Multivar. Calculus Student Assistant

06/17- 08/17

Santa Clara University

Santa Clara, CA

- Outline step-by-step guidelines to assist 30 students who encountered challenges in their coursework
- Communicate with students to work out study plans to improve test-scores for over 50% of the class

PROJECTS

Optimal Itinerary Generator^[REACT-NATIVE] 06/18 - 06/19

Senior Design Project

- Developed a mobile application that produces an optimal itinerary given a list of attractions, considering travel time and time spent at each attraction.
- Utilized Google Distance Matrix API and Foursquare API

C Compiler^[C++/Assembly]

04/19 - 06/19

- Developed a Simple C Compiler that parses and tokenizes C code, performs lexical analysis, parsing of ambiguous grammar, type checking, scoping, and translation to assembly code
- Generates assembly code for function parameters, global, and local variables with proper storage allocation and deallocation
- Compiler is compatible with integer, long, string, void and struct data types