Nicole Martindale

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EDUCATION

UC SAN DIEGO

BS in Comp. Science
Expected June 2021 | San Diego, CA
Provost Honors
Eleanor Roosevelt College
GPA: 3.5

LINKS

Github:// **nikiollie**
LinkedIn:// **nicole-martindale**
Website: **https://nikiollie.github.io/**
Portfolium:// **nicole-martindale**

AWARDS

- 2019 UCSD CSE Undergrad Award for Excellence in Service/Leadership
- National Center for Women and IT Award - 2017 San Diego Winner
- 2017 SWE San Diego Scholarship Award

CLUBS

- CSE Diversity, Equity, and Inclusion Committee: Undergrad Rep
- Women in Computing: Mentor, Competed in Beginner's Coding Competition
- Society of Women Engineers: Mentor for Anita Borg Leadership and Engagement Program (ABLE)

SKILLS

PROGRAMMING

Java • Python • C# • JavaScript
C • C++ • HTML • CSS • LaTeX

SOFTWARE TOOLS

Vim • Unix • Git • GDB
XCode• Visual Studio

COURSEWORK

- Intro to AI: Search & Reasoning
- Computer Operating Systems
- Advanced Data Structures (C++)
- Data Structures & OO Design (Java, C)
- Design & Analysis of Algorithms
- Computer Organization & Systms. Prog.
- Linear Algebra

EXPERIENCE

QUALCOMM | Software Engineering Intern

June 2020 - Present | San Diego, CA

- Designed and developed a web UI with a WSGI server (JavaScript, HTML, CSS, Bootstrap, Flask) to run Python scripts for analyzing crashes and generate/view reports on Connectivity and Stability JIRA issues [WiFi, BT, FM]

June 2019 - Sep 2019 | San Diego, CA

- Implemented C# based parser to decrypt binary packets of information presented in bin files
- Developed UI to display parsed info in a sequence diagram and tree view form

UCSD CSE DEPARTMENT | CSE Head Tutor

Sep 2018 - Present | UCSD CSE Dept

- Tutor for Professor Gary Gillespie's CSE 12 (Data Structures), 15L (Software Tools & Techniques Lab), 110 (Software Engineering)
- Grade homework and exams, hold office hours and staff labs to help students understand the course and teach debugging skills

UCSD KNIGHT LAB | Researcher

Sep 2018 - Present | Early Research Scholars Program

- Characterize metagenomic sequence data through development of convolutional neural networks and word embedding models with Python and TensorFlow
- Evaluate the performance of these networks using real and mock community metagenomic data, in comparison to existing standard tools in the field

PROJECTS

GASUP APP | Software Dev Lead

April-June 2019

- Built a React Native mobile app which takes into account distance, current amount of gas, cost, gas station preference, and car type in order to select the most cost-efficient gas station
- Used React Native, Firebase, Flask, Selenium, and AWS EC2 to develop this app

UCSD HACKXX | ShoppingCenter@UCSD

April 2018

- Built an iOS app called ShoppingCenter@UCSD which acts as an online marketplace allowing students to buy and sell each other's items
- Used Swift and XCode to compete in the 24 hour hackathon with two other team members

UCSD H.A.R.D. HACKS | NameBuzzer

Jan 2018

- Programmed a Qualcomm DragonBoard 410c, Arduino, Audio Board, motor
- Used the Python Snowboy API for voice recognition, the motor would vibrate when the keyword was heard. Can help the hearing-impaired community

UCSD CSE SPIS | Greeter Robot

Summer 2017

- Built a "greeter robot" using Python, Raspberry Pi3, servos, ultrasound sensor
- Programmed to recognize reflective tape & autonomously follow it, then relay a previously recorded message and "wave" using foam hand connected to servo