

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](#)

Portfolio:// [nicole-martindale](#)

Website: <https://nikiollie.github.io/>

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

- 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# • C

C++ • HTML • CSS • LaTeX

MATLAB • Mathematica

SOFTWARE TOOLS

Vim • Unix • Git • GDB

Eclipse • Atom • XCode

Visual Studio

HARDWARE

Raspberry Pi3 • Arduino

COURSEWORK

- Advanced Data Structures (C++)
- Data Structures & OO Design (Java, C)
- Design & Analysis of Algorithms
- Computer Organization & Sysms. Prog.
- Mathematics for Algorithms & Systems
- Linear Algebra
- Discrete Mathematics

EXPERIENCE

QUALCOMM | SOFTWARE ENGINEERING INTERN

June 2019 - Sep 2019 | San Diego, CA

- Designed and 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 the development of generalized adversarial neural networks using 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

GIRLS WHO CODE @ AUTODESK | TEACHING ASSISTANT

June 2018 - Aug 2018 | San Francisco, CA

- Instructed 20 girls during a 7-week intensive summer immersion program in Scratch, Python, C++/Arduino, Javascript, HTML and CSS

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 with Arduino, Audio Mezzanine Board and 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