

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: 3.66

LINKS

Github:// [nikiollie](#)

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

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

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

COURSEWORK

UNDERGRADUATE

- Data Structures & Obj-Ori Design (Java)
- Computer Organization & Sysms. Prog. (Assembly and C)
- Bldg. & Programming Elct Device
- Engin. Comp. Using MATLAB
- Linear Algebra
- Discrete Mathematics

SKILLS

PROGRAMMING

Python • Java • HTML • CSS

C • MATLAB • Mathematica

SOFTWARE TOOLS

Vim • Atom • Eclipse • Unix

Arduino IDE • Solidworks

Altium • XCode

Autodesk Fusion 360

HARDWARE

Raspberry Pi3 • Arduino • Machining

Particle Electron/E-series

AWARDS

- 2017 SWE San Diego Scholarship Award
- National Center for Women and IT Award - 2017 San Diego Winner

CLUBS

- Women in Computing: Member, Competed in Beginner's Coding Competition
- Society of Women Engineers: Mentor for Anita Borg Leadership and Engagement Program (ABLE)

EXPERIENCE

EARLY RESEARCH SCHOLARS PROGRAM | INCOMING RESEARCHER

Sep 2018 - June 2019 | UCSD

- Will conduct and learn about research in computer science
- Propose and carry out an independent research project over the course of an academic year.

SUMMER PROGRAM FOR INCOMING STUDENTS | MENTOR

Aug 2018 - Sep 2018 | UCSD

- Introduce 50 incoming CS students to college-level Python and concepts such as abstraction, computation, algorithm design, and solve problems in domains such as image processing, computer vision, cryptography, and data mining.

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 and markup languages including HTML and CSS for non-profit organization, Girls Who Code

QUALCOMM INST. CALIT2 PROTOTYPING FACILITY | LAB INTERN

Jan 2018 - June 2018 | UCSD

- Design, build, and program research projects and prototype devices for professors, organizations, and the Prototyping Lab.
- Mainly work with software and electrical devices such as Arduino, Particle Electron, transistors, sensors (Ultrasound, Photoresistor, Temperature...).

FIRST ROBOTICS TEAM 3647 | PROGRAMMING MENTOR

Nov 2017 - June 2018 | San Diego, CA

- Teach Java to new members and help program the robot (Autonomous, Teleop., Vision)
- Elected to be President during 2016/17 school year, started Casa de Amistad Outreach Program, Build Team 2013-2016

PROJECTS

See Portfolio for more

UCSD HACKXX | TESC AND SWE

April 2018 | San Diego, CA

- 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.

GREETER ROBOT | UCSD SUMMER PROGRAM FOR INCOMING STUDENTS (SPIS)

Summer 2017 | San Diego, CA

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