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Nolan Cassidy

www.github.com/nolancassidy
www.nolancassidy.com

Education

University of Oregon **September 2016 – Present**

B.S. in **Computer & Information Science** | Minor in **Economics**
Graduation Date: December 2019 | Leviton Global Scholarship
Programming Competition Club - Solved coding problems during weekly meetings with classmates and professors

Experience

IT Internship, Oakwood Worldwide **Santa Monica, CA | Summer 2018**

- Developed a chat bot to answer customer questions and help employees save time. | ***www.oakwood.com/help***
- Performed requirement analysis on how artificial intelligence and machine learning could benefit the company.
- Participated in meetings and consulted with other departments to design, implement, test, and debug my project.
- Leveraged knowledge in Google Cloud Platform, Flask, .NET APIs, Dialogflow, Microsoft SQL Server, coded in Python & Node.js, and made available through the mobile app, Facebook messenger, and main help webpage.

Coding Instructor, MVCodeClub **Marin County, CA | June 2015 – January 2018**

- Educated classes on C++, Java, C#, JavaScript, Unity, Blender, Arduino, Mobile Development, XCode, Android Studio, HTML, CSS, Game Modding, Scratch and Oculus Virtual Reality.

IT Internship, TRX **San Francisco, CA | Summer 2016**

- Helped develop a personal website for the CEO made in WordPress. | ***www.randyhetrick.com***
- Integrated a dynamic cloud platform for improved workflow and marketing by migrating all local assets to the digital asset management system Webdam.

Los Angeles, CA | Summer 2015

- Responsible to set-up, operate technology, help customers, and tear down at IDEA Fitness Convention, the largest TRX tradeshow.

Projects

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- **Stock Prediction** | Built a machine learning model using Python, Pandas, and Quantopian that determines to buy or sell predicated on moving averages, twitter mood, and other trading signals.
- **Image Processing** | Implemented rasterization techniques to apply rotation, scaling, combination, color, shading and lighting to images. Coded using C++ and debugged using GDB.
- **Full Stack Flask App** | Designed a web app to calculate brevet times using a Python backend, MongoDB for storage, REST APIs, and includes CSRF protected user authentication.
- **3D Game Development** | Created a virtual reality roller coaster shooter for the Oculus, a roll a ball maze game for IOS/Android and a spaceship flight simulator for the computer all made using C# and Unity3D.
- **Arduino Robotics** | Constructed a line follower using reflectance sensors, a maze solver using triggers & infrared, a remote-controlled car with Bluetooth & DC motors, and a snake game using a LED panel & joystick.

Courses

- **Computer** | Software Methodology, Computer & Network Security, Computer Graphics, Operating Systems, Intro Software Engineering, C/C++ & Unix, Computer Organization, Intermediate Algorithms, Intermediate Data Structures, Computer Science I&II&III
- **Economics** | Urban Economics, Labor Market Issues, Intermediate Macro Economic Theory, Intermediate Micro Economic Theory, Micro Economic Analysis, Macro Economic Analysis, Intro to Business
- **Math** | Calculus I&II&III, Discrete I&II, Probability and Statistics in Computer Science, Linear Algebra
- **Other** | Brain to Artificial Intelligence, The World & Big Data, GIScience I, History of Life, Environmental Natural Sciences, Dynamic Planet Earth, Earth's Surface and Environment, Scientific & Technical Writing

Skills

- Python, C++, C, Java, C#, SQL, HTML, CSS, JavaScript, Git
- Windows, Mac, Linux