

# Nolan Cassidy

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## EDUCATION

**University of Oregon**, Leviton Global Scholarship

September 2016 – December 2019

**Major:** Bachelor of Science, Computer & Information Science

**Minor:** Economics

**Programming Competition Club:** Solved coding problems during weekly meetings with classmates and professors.

**Computer Security Club:** Organized group of classmates to perform CTFs, hacking games, and guest lectures.

**Relevant Coursework:** Software Methodology, Principles of Programming Languages, Database Processing, 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, Calculus I II III, Discrete I&II, Probability & Statistics in Computer Science, Linear Algebra, Brain to Artificial Intelligence, The World & Big Data, GIScience, Scientific & Technical Writing

## SKILLS

**Platform/OS:** Windows, Linux, Mac, Unix

**Programming Languages:** Python, C++, C, C#, JavaScript, Java, SQL, HTML, CSS, Go, PHP, Visual Basic

**Frameworks & Applications:** NodeJS, ReactJS, Flask, Django, IOS/Android Mobile Development, MongoDB, AWS, Google Cloud, Firebase, Dialogflow, Quantopian, ExpressJS, MeteorJS, Unity, SEO, WordPress, Oculus, XCode, Arduino, Dreamweaver, Photoshop, Pandas, Jupyter, VTK, WebGL, Tkinter, Twilio/Nexmo, Bootstrap, Git

## EXPERIENCE

### Portl Hologram

*Software Engineer*

Los Angeles, California

September 2019 – Present

- Creating world's first and only single passenger technology that allows anyone to "beam" from anywhere in real-time with a 4K holographic resolution.

### Atlas

*Lead Software Engineer*

Los Angeles, California

February 2021 – August 2021

- Led a team of 4 developers to release the first iteration of the technology that drives day to day operations within the technology focused real estate startup which led to investment.

### Good Green Technology

*Lead Software Engineer*

Marin County, California

June 2020 – March 2021

- Made the technology ready for consumer use by planning the iterations and finishing coding several key features.
- Transferred what was an all-paper business to our new tech stack which sped up the productivity of the more than double and now all the company's payments go through our online system.
- Worked on the Web app for managing the business, iPad app for movers, and iOS/Android app for customers to order their moves.
- Create pipelines to automatically check and deploy our code to our AWS instances.
- Technologies used: Node.JS, React.JS, Express.JS, Swift, Java, MySQL, XCode, Sendgrid, Git, Stripe, Redis, Flux, AWS, CI/CD.

### Fullcourt

*Software Engineer*

Los Angeles, California

June 2019 – January 2020

- Pushed features to the web admin portal and IOS/Android mobile apps.
- Created prototype for messaging capabilities between users within the app.
- Technologies used: Node.JS, Meteor.JS, React.JS, Express.JS, Swift, Objective-C, Java, Cordova, MongoDB, XCode, ElasticSearch, Git.

### Oakwood Worldwide

*Information Technology Internship*

Santa Monica, California

May 2018 – September 2018

- Implemented artificial intelligence and machine learning into the company.
- Developed an internal chat bot to quickly find information from the SQL servers to save employee time.
- Developed an external chat bot to answer customer questions.

- Technologies used: Google Cloud Platform, Flask, .NET APIs, Dialogflow, Microsoft SQL Server, coded in Python & Node.js, available on the mobile app, Facebook messenger, and main help webpage.

## **MVCodeClub**

*Coding Instructor*

Marin County, California

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.

## **TRX**

*Information Technology Internship*

San Francisco, California

June 2015 – September 2016

- Integrated a dynamic cloud platform for improved workflow and marketing by migrating all local assets to the digital asset management system Webdam.
- Helped develop a personal website for the CEO made in WordPress.
- Responsible to set-up, operate technology, help customers, and tear down at IDEA Fitness Convention, the largest TRX tradeshow.

## **PROJECTS**

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**SMS Marketing Web App:** Deployed to production a SMS Marketing app that allows bulk SMS, user authentication, subscriptions, and auto reply to texts using Node.JS, React.JS, Express.JS, Firebase, Nexmo, and Heroku. | <https://www.chitchat.services>

**Interactive Tree Map:** Worked with the arborists on campus to create an interactive web tree map with note capabilities made using JavaScript, Leaflet, and GIS data. | [nolancassidy.com/Tree-Map-UO](http://nolancassidy.com/Tree-Map-UO)

**Instagram Automation Bot:** Made an automated growth hacking bot to grow accounts using Python and Instabot toolkit. Given a specific hashtag, the bot will look for photos then like, comment, follow, and unfollow accounts.

**Graphics Liquid Simulation:** Implemented rasterization techniques to apply rotation, scaling, combination, color, shading and lighting to images. Coded using C++ and debugged using GDB. | [youtu.be/V5kyJAyQMec](https://youtu.be/V5kyJAyQMec)

**Full Stack Web Apps:** Designed a Flask web app to calculate brevet times and a Django craigslist web app using Python backend, MongoDB for storage, REST APIs, and includes CSRF protected user authentication.

**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.

**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.