

Trent Callan

<https://trentcallan.github.io>

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Curious-minded Computer Science honors graduate with a passion for applying abstract concepts to real world challenges; Eager and quick to master new technology; Successful in both team and self-directed settings.

WORK EXPERIENCE

Qwesty

November 2019

- Created and published an iOS application with in-app purchase on to the app store
- Utilized Core Data to store and manage Quests and Animations
- Implemented animated character profile with SceneKit along with a settings controller to manage customizations
- Designed to help organize people through quests and motivates through a character progression system
- <https://apps.apple.com/us/app/qwesty/id1486407706?ls=1>

Freelance iOS Development

October 2019

- Contracted to make a prototype iOS application
- Implemented UICollectionView and UITableView with alphabetical index to make finding information easy
- Decoded JSON into 9 different models and set up data so that it fits to the desired UX structure
- Testimonial from client - "Trent was very responsive and friendly to work with. I sent over some basic ideas / designs in excel and a word document, which he was able to discern and translate into a working version of an iOS app. He communicated well and was very willing to go above and beyond."

iHuman Science Research

Salem, OR

Data Science Intern - Willamette University

September 2018 – May 2019

- Use of R, Rstudio and Python to visualize data and construct predictive models for the psychology department.

TakeCare

Portland, OR

Founder

2006 – 2015

- Established and promoted a pet/house sitting service. Increased the clientele and revenue consistently.

EDUCATION

Willamette University

Salem, OR

B.A., Computer Science with department honors; Mathematics Minor

August 2015 – May 2019

GPA: 3.77 in major; 3.72 overall. Deans List 5 semesters; Fall 2016 and Fall 2017 – Spring 2019

National Association of Basketball Coaches (NABC) academic Honors Court; NCAA NWC Scholar Athlete 2017-19.

TECHNICAL SKILLS

- **Languages** - Proficient in Swift and Java. Practical knowledge of JSON, R, Python, JavaScript, HTML and CSS.
- **Development Tools** - Experience developing iOS applications using Xcode. Advanced knowledge of CocoaPods, NetBeans, RStudio, Jupyter Notebook and Tableau.
- **Frameworks** - Strong sense of UIKit, SceneKit, Core Data and Firebase.
- **Design Patterns** – MVC and MVVM

COURSE WORK

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|------------------------------|------------------------------|
| • Machine Learning | • Operating Systems |
| • Data Structures | • Computer Graphics |
| • Automata Theory | • Data Science |
| • Analysis of Algorithms | • Multivariable Calculus |
| • Architecture and Compilers | • Probability and Statistics |

EXTRACURRICULAR

- Raspberry Pi and Arduino hobbyist; built magic mirror, music reactive lights; developing future projects.
- Willamette Varsity Men's Basketball Team Captain; work in community outreach/education for various charities.
- Recruited contributor at 2019 National NCAA Diversity & Inclusion Forum; April 26-28 in Atlanta, Georgia.