Marcus Todd

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EDUCATION

CARNEGIE MELLON UNIV.

B.S. in Computer Science
Expected May 2017 | Pittsburgh, PA
Minor in Photography

LINKS

Github:// malexandert
LinkedIn:// Marcus Todd

COURSEWORK

UNDERGRADUATE

Constructive Logic
Web Application Development
Principles of Software Construction
Principles of Functional Programming
Great Theoretical Ideas of CS
Mathematical Foundations of CS

SKILLS

LANGUAGES

Proficient:
Python • Scala • Java • Standard ML
Familiar:
C • JavaScript • Haskell

TECHNOLOGIES

Proficient:
Git • Django • Heroku
Familiar:
Play • Akka

EXPERIENCE

ORIGINATE | Software Development Intern

May – August 2015 | New York, NY

- In partnership with the company NewAer, developed features and fixed bugs for the NewAer API backend using Scala
- Implemented a garbage collection utility to allow the server to properly delete old devices on the database
- Contributed to Scalypher, a Scala-based DSL for writing Neo4j Cypher queries, to allow it to support queries for nodes in the database with no relationships

GOOGLE | Software Engineering Intern

May – August 2014 | Mountain View, CA

- Optimized the test generation and test result collection procedure for the Google Fiber TV UI by helping develop a model-based testing framework
- Implemented the utility to run the randomly generated tests and collect and export their results using Python

PROJECTS

BLOBS.VR | Intern Hack project at Originate

August 2015

In a team with three other interns, developed a 3D, first-person, virtual reality version of the web game Agar.io for Google Cardboard, using the Unity3D game engine and the language C# for scripting.

A WEB GUIDE TO GETTING LOST | 15-437/15-637 Final Project

May 2015

Created a website idealistically based on Rebecca Solnit's book A Field Guide to Getting Lost that allowed users to randomly generate a path in an area of their choosing. Users would then follow the path in real life while logging their thoughts on the on-site journal. The backend was developed using Python and the Django Framework. The frontend was developed using Bootstrap and the Google Maps Javascript API.

EXTRACURRICULARS

WRCT: A RADIO STATION

Student-run radio station at Carnegie Mellon

Fall 2015 - Fall 2016	Program Director
Fall 2014 - Fall 2015	Assistant External Music Director
Spring 2014 - present	Air-cleared DJ

DELTA UPSILON CARNEGIE CHAPTER

Non-secret social fraternity on campus

Fall 2015 - Spring 2016	Vice President of External Relations
Fall 2014 - present	Service Chair
Spring 2014 - Fall 2014	Executive Vice President