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Sidney Oderberg

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Education

University of Illinois, Urbana-Champaign **August 2017 – Dec 2018**

- Professional Master of Computer Science
- Notable Courses: Machine Learning in Signal Processing (currently enrolled); Computer Graphics (currently enrolled); Wireless Networks (currently enrolled)

University of California, Berkeley **August 2013 – May 2017**

- Bachelor of Arts, Computer Science
- GPA: 3.8; Honors: Dean's List, UPE (computer science honor's society)
- Notable Courses: Efficient Algorithms and Intractable Problems; Artificial Intelligence; Databases; Machine Learning; Web Design; Operating Systems; Internet Architecture; Computer Security

Experience

TechEmpower **El Segundo, CA**

Web Development Intern *May 2016 – August 2016*

- Developed a React front-end for a community-based movie reviewing web-app
- This involved handling user registration/logging in, forms/buttons for interactivity, pages with nested reviews and comments, and utilizing multiple APIs for hitting the back-end and other online sources
- Followed the Single Page Application paradigm and loosely based my architecture on the Flux design
- Gave a company-wide presentation of my app front-end and discussed the topics in my report on React

Lieberman Software Corporation **Los Angeles, CA**

Software Development Intern *June 2015 – August 2015*

- Built modules for Enterprise Random Password Management using the API's of Microsoft Azure and Salesforce to manage user credentials
- Learned about and applied security and web protocols such as OAuth2 and JSON
- Worked with the intern team to create an SDK document detailing how to create these modules

Neural Theory of Language Research Group **Berkeley, CA**

Undergraduate Researcher *Feb 2016 – May 2017*

- This research group at the International Computer Science Institute studies and develops methods for understanding natural language to improve task-oriented human communication with robots
- Learned about and used Kaldi, an open-source toolkit that uses machine learning to recognize speech
- Co-authored a paper about using construction grammar to solve the Winograd challenge

Projects

- Created a web app called Ambient at HackTech 2016 (hackathon): it plays relaxing background music and displays nice pictures based on the theme selected by the user, can be found on my website
- Used machine learning techniques such as Neural Nets and SVMs to classify handwritten digits and ham vs. spam emails, and got accuracies between 85% and 97%
- Built a semi-autonomous self-driving robot car that responded to the presence of a hand on top of it

Technical Skills

- **Programming Languages:** Python, Java, HTML, CSS, Javascript, JQuery, React, C, C#, SQL
- **Software:** Git, Microsoft Word/Excel/PowerPoint/Visual Studio, Autodesk Fusion 360 (3D modeling)
- **OS:** Most experienced with Windows, some familiarity with Linux/Ubuntu/Unix