Alexa Rockwell

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Education

Stanford University — *SCPD Graduate Certificate*
Deep Learning, Artificial Intelligence: Principles and Techniques, Introduction to Robotics, Mathematical Foundations of Computing

JULY 2019 - PRESENT

Stony Brook University — *BS in Computer Science*
Honors Computer Science Program at SBU, Dean's List, President of the Stony Brook Computing Society

AUGUST 2014 - MAY 2018

Work Experience

Apple, Cupertino, CA — *Software Engineer*

JANUARY 2019 - PRESENT

- Contributed to on-device graph technologies and features in the Photos app, used by millions of users around the world.
- Engineered the Memories Music feature, which matches Apple Music songs to user's photo content, using a curation pipeline and scalable infrastructure. Regularly facilitated cross-team communication and mitigated server load balancing use-cases.
- Created a tunable algorithm that identifies multicultural holiday celebrations from user photos.
- Worked on incoming bugs with a high turnover rate, with special attention to unit testing, performance, and design architecture.

Blackstone, New York, NY — *Software Engineer*

JUNE 2018 - DECEMBER 2018

- Enhanced interface that calculates investment fund scenarios dynamically.
- Utilized tree data structures to calculate management fees, report growth over time, and evaluate hypotheticals.
- Presented new functionality to clients and integrated feedback into technical solutions.

Languages and Skills

Objective-C/Swift CoreData, ARKit, Python numpy, sklearn, OpenCV, C++, sqlite/relational databases, C#/.NET, Javascript Node.js, D3, Java, Firebase, Angular/Typescript, 3D Printing, AutoCAD

Projects

Stanford Deep Learning Project (2021) — *Trained TinyYOLO object detection NN on augmented Multiple Object Tracking (MOT) dataset to detect partial bounding boxes for a person from camera input. Deployed it on a robot with a Raspberry PI and used naive trajectory planning to advance the robot to a person.*

Buddy (2018) — *iOS augmented reality project with user interaction and sentiment analysis for real time user input classification and reaction.*

Honors And Awards

Google Grace Hopper Conference Grant Recipient, Campus Ambassador to Harvard's WeCode Conference (from 2014-2017), Forbes 30 Under 30 Scholar, Zonta Scholarship Recipient