Eli Hanover

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EDUCATION
Emory University, Atlanta, Georgia   December 2018
Bachelor of Science in Mathematics and Computer Science
Bachelor of Arts in Philosophy
Overall GPA: 3.7

TECHNICAL SKILLS
Programming: *Python, Node.js, Go, Solidity, Java, Swift*
Deep Learning Frameworks: *PyTorch, Keras, Tensorflow*
Skills: *Amazon Web Services, Git/Github, Serverless Framework, Ethereum Development*

RELEVANT COURSEWORK

Artificial Intelligence	Data Structures and Algorithms	Advanced Computer Systems
Computational Modeling for Engineers	Software Engineering	Linear Algebra
Assembly Programming	Discrete Structure	Neuroscience Research

EXPERIENCE
Harvard Innovation Lab, Boston, Massachusetts   August, 2018 – Present
Venture Incubation Entrepreneur
- Cofounded Matrio, a low-code, visual development environment for prototyping cloud applications.
- Implemented Javascript wrapper over Terraform for rapid prototyping of cloud applications on AWS.
- Prototyped API data visualization platform.
- Incubated at the Harvard Innovation Lab in the Venture Incubation Program, Fall 2018 and Spring 2019 Cohort.

Connext, Palo Alto, California   June – August, 2018
Software Engineer Intern
- Researched state channel hubs as a means for off-chain Ethereum scalability.
- Implemented a watchtower on AWS to watch for dishonest channel closures and dispute claims for offline users.

Baylands Incubator, Palo Alto, California   April – August, 2018
Research Software Engineer Intern
- Researched Ethereum scalability issues through analysis of core data structures and sharding implementations.
- Implemented binary state trie implementation of Ethereum's Go client which reduced Merkle Proof size by over 40%.
- Proposed sharding implementation allowing higher gas transactions that was added to the official Ethereum roadmap.

BeCare Link, New York, New York   June – August, 2017
Software Engineer Intern
- Developed chat bot iOS application to provide Multiple Sclerosis patients with information and psychological counseling using Api.ai's JSON chat bot API.
- Explored existing deep learning research on conversational agents and natural language processing.
- Web scraping in Python for training data.

IBM Research, Yorktown Heights, New York   May – July, 2016
Research Summer Intern
- Programmed a tool to automate research into supposed suspicious URLs flagged by an internal IBM tool and then correct and log relevant changes using Python, REST APIs, and web scraping techniques.
- Created dashboard using Javascript, jQuery, HTML, and Python using Flask.
- Implemented that same application as an iOS application using Swift.

Emory University, Atlanta, Georgia   January – May, 2015
Computer Science Teaching Assistant
- Led lab sessions for "Intro to Computer Science I" course, reaching 40 students weekly.
- Assisted students without course material by in lab sessions and through hosting open office hours.

Compass Fellowship, Atlanta, Georgia & Washington DC   October, 2014 – May, 2016
Fellow, Mentor, Atlanta, Georgia
- As a fellow, learned and developed entrepreneurial skills with a direct focus on social entrepreneurship.
- As a mentor, lead fellows forward in their own ventures and taught weekly modules.
- As summer intern, acted as project manager of a fundraising campaign to refresh the fellowship's curriculum.

PROJECTS AND RESEARCH
Emory University, Atlanta, Georgia   August, 2018 – Present
Recursive Generative Query Networks for Transfer Learning
- Conducted independent research designing a novel deep learning model to enable transfer learning for scene representation tasks in reinforcement learning environments.
- Implemented Generative Query Network (GQN) in Keras.
- Implemented Recursive-GQN in PyTorch.