

OMID ROOHOLFADA

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EDUCATION

Yale University, New Haven, CT Expected Graduation 2020

BS in Mathematics and Computer Science (Double Major), GPA: 3.7

Relevant Coursework: Systems Programming and Computer Organization, Artificial Intelligence, Data Structures, Design and Analysis of Algorithms, Discrete Mathematics, Linear Algebra and Matrix Theory

Rancho Bernardo High School, San Diego, CA Graduated June 2016

GPA: 4.5

Awards: USA Math Olympiad Qualifier, National AP Scholar, Science Olympiad State Medalist, Distinguished Speaker at TEDx RB

WORK AND LEADERSHIP EXPERIENCE

Code Haven Yale, *Co-President*, New Haven, CT August 2016-Present

- Wrote a 15-week CS/app development curriculum for middle school students in New Haven
- Leveraged Scratch, App Inventor, and Sphero robots to write customized syllabi for conflicting classroom schedules
- Worked with mentors at Google IgniteCS program to secure \$6,000 in funding and strategize for maximum outreach

Yale Flint Group, *Research Assistant*, New Haven, CT September 2017-Present

- Used Keras library in conjunction with TensorFlow to implement a Convolutional Neural Network model
- Designed indoor driving experiments to collect data for training the machine learning model
- Leveraged OpenCV to apply image augmentation techniques on datasets to improve validation accuracy

Yale Information Technology Services, *Student Developer*, New Haven, CT January 2017-May 2017

- Built Slack/JIRA ticket integration that is currently being used by Yale ITS department for task management
- Researched Facebook Workplace as an alternative to Yale Facebook, a directory used by over 7000 undergraduates

TECHNICAL PROJECTS

Walnut, Discussion and Meetup Service for Universities July 2017-August 2017

- Architected React-Redux frontend framework with modular stateful components and React Router for client-side routing
- Managed packages with Webpack module bundler, using UglifyJS and optimization plugins to decrease bundle sizes
- Built real-time messaging platform using Firebase Database; persistence and authentication built with Firebase OAuth
- Leveraged AWS S3 cloud services to store user photos and media portfolios
- Designed searchable live map of user locations with Mapbox API and Google Autocomplete

Outfit, Crowdsourced A/B Testing for Fashion July 2017

- Built modular feedback-based app in React Native/MongoDB/Express framework
- Leveraged Clarifai Computer Vision API to implement Safe Search and suggest similar clothing options on Amazon
- Designed mobile-first wireframes for each user interaction using Sketch and Invision
- Top 6 Finalist at AngelHacks Silicon Valley 2017

Waiv, Live Map of Experiences Near You October 2016-May 2017

- Coordinated with local New Haven businesses to create in-app advertisements, to be launched this fall
- Architected Ionic V2 mobile framework, then implemented hotspot feature and advertisement banners
- Implemented Geofencing using Google Maps API, accurate within 2 feet

LANGUAGES AND TECHNOLOGIES

- **Frontend Dev Skills:** React, React Native, Ionic, Cordova, Redux, Webpack, jQuery, Bootstrap, HTML, CSS, Sass
- **Backend Dev Skills:** NodeJS, C, C++, Python, MongoDB, WebSockets, Firebase, OAuth, OpenMP, CUDA,
- **Other Technologies:** Git, MATLAB, Mathematica, Excel, Sketch, InVision