Alan Yu

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Education
Rice University, Houston, TX
Bachelor of Science in Mathematics,
Bachelor of Arts in Computer Science, GPA: 4.08   (Expected) May 2020
Honors: Louis J. Walsh Scholarship in Engineering, top 5% GPA in Engineering Department

Skills
- **Programming:** Python, Java, JavaScript, HTML, CSS, R, Matlab, Bash, Perl, PHP
- **Technologies:** Node.js, App.js, Server.js, MongoDB, Git, Vim, TensorFlow, Jekyll, Ionic

Relevant Experience
Software Developer Intern   May 2018 - Aug 2018
Victorise
- Added an interface for choosing biking routes using Material Design + Bootstrap as frontend, Server.js + MongoDB as backend
- Redesigned the IOS interface, making it more succinct and user-friendly using App.js
- Fixed version problems and improved the compatibility of the app

Research Assistant, Bioinformatics   Feb 2017 – July 2017
Baylor College of Medicine, Houston, TX
- Processed large-scale DNA data and built a classifier to classify DNA into specific populations with TensorFlow
- Utilized deep learning models (ANN and CNN) with TensorFlow to forecast the phasing process of the DNAs
- Reached accuracy above 90% and presented the best model to medical professionals for further applications in personalized medicines for children

Projects
One Click File Translator (Aiden's Lab)   June 2018 – Aug 2018
- Created a one-click *.hic* file translator that will cover multiple file formats and environments making it much easier to compile and visualize raw data collected from genome labs
- Produced dynamic visualizations of the intermediate outputs using Plotly API and d3.js
- Made it much easier to compile and visualize raw data from genomic labs

Twitter-Likes-Who https://github.com/AlanFermat/twitterhigherlower   Mar 31th – Apr 1st 2018
- Built a web game within 24 hours with a team of 4 members using Bootstrap and Node.js during HackRice
- Collected real-time data from Twitter using Twitter API

Shelper.net (HackRice) https://github.com/AlanFermat/Shelper   Sept 22nd – Sept 24th 2017
- Built an API that connects emergency shelters with people who are looking for help during Hurricane Harvey
- Implemented customized Google Map API (JSON and react.js) and visualized the live data on the screen from database (MongoDB)
- Best API award by Major League Hacking

Customer prediction (NorthStar Memorial Group)   Nov 2017 – Dec 2017
- Utilized various machine learning techniques in R to analyze past contracts for the company, then provided a prediction report for the potential customers and their preferences
- Provided detailed suggestions of targeted customers for the company

Leadership Roles
Founder, Vice President, *Rice Blockchain Club*   Nov 2017 – Present
- Organized weekly meeting on the topics of blockchain technology
- Reached out to local blockchain communities and invited speakers to panel talks
- Host campus hackathons under topics of blockchain technology