Christopher Chen

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EDUCATION

Brown University, Sc.B Applied Math – Computer Science   **Providence, RI**
Cumulative GPA: 3.8   Expected Graduation December 2018
Courses include: Collaborative Robotics (CS2951K), Machine Learning (CS1420), Design and Analysis of Algorithms (CS1570) (also **Fall 2017 TA** for this course), Data Science (CS1951A), Introduction to Software Engineering (CS0320), Computer Systems(CS0330)

TECHNICAL SKILLS

Languages: Python, Java, Javascript, SQL, Functional Programming
Frameworks/Libraries: Tensorflow, Keras, React.js, Node.js, ElasticSearch Stack, React Native

INDUSTRY EXPERIENCE

Facebook   **Menlo Park, CA**
Software Engineering Intern   Jun 2018 - Aug 2018
- Develop and maintain an end-to-end analytics service that offers insights into how users interact with the FB family of apps. Integrate work across instrumentation libraries, a data processing engine, and a visualization tool.
- Research user need and scope out technical implementation to improve $O(n^3)$ algorithm to comparable $O(n^2)$ algorithm

IBM   **Austin, TX**
Software Engineering Intern: Jun 2017 - Aug 2017
- Architected and implemented log analytics solution for data monitoring over **200 enterprise** customers' systems: deployed ElasticSearch cluster and leveraged LogStash, Kibana, and ElastAlert. Saved avg. **5 hours** of engineering effort per defect.
- Engineered proactive solution to alert on ML-learned system failure signals for of avg. **50GB** log data/day.

CA Technologies/Rally Software   **Boulder, CO**
Software Engineering Intern   June 2016 – September 2016
- Architected and built site visual performance benchmarking tools with Webpagetest, StatsD, Docker, InfluxDB, and Grafana for CA Agile Central's production pipeline to maintain accountability and aggregate data on performance for **118 webpages** and 30+ person engineering team.
- Designed and implemented reusable React.js components for in workflow pop out editor to reduce unnecessary page navigation, accounting for **over 2s in saved time** on most heavily trafficked pages.

PROJECTS+RESEARCH

AQFETCH POMDP – Social feedback planning model for object picking task, Tellex Humans2Robots Lab   **Providence, RI**
Paper to be published   January 2018 - Present
- Designed POMDP-based planning model and solving algorithm for allowing for questions based on object attributes as social feedback in an object picking task.
- Piloted future user study to evaluate average 15% quicker identification of user desired object while maintaining accuracy of object picks, and expanding the navigable domain of object picking tasks

TOGO – Hack@Brown 2018 **1st Place, Google Prize** Fighting food waste and food insecurity   **Providence, RI**
Project Lead: Devpost https://devpost.com/software/togo-j90sg4   Feb 2018
- Designed and implemented user creation flow and integration with Firebase. Created Node.js server to curate remote notifications through Firebase Cloud Messaging. Enabled non smartphone users to communicate through SMS via Twilio API.

CrossCheck – Algorithmic news verification, patent pending   **Providence, RI**
Cofounder, Full Stack Engineer: crosschecked.io   Feb 2017 - Oct 2017
- Architected easy-to-scale and robust web server backend for real time content verification Chrome extension with NGINX, Celery, Django web framework, and modern web app interface with React.js.
- Leads synthesis of data relationships in web scraped data translated into ML algorithm with 94% precision
- Championed product development through lean startup methodologies **to raise over $15,000 dollars**

CLUBS+ACTIVIITIES

Let's Talk China, Founder and President   **September 2016-Present**
- Founded and leads Let's Talk China to provide community space, through both academic discussion and engaging culturally-relevant activities, to allow 200+ students without immediate connection to China to engage with China and develop a framework for successfully interacting with China and its people in their own lives.
- Designed and lead team to create 10+ workshops, teach-ins, and discussions to open the greater Brown community's (Brown, RISD, Johnson and Wales University) interest in China and its culture, hosting guests such as Former US Ambassador Chas Freeman.