MAGGIE LOU

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EDUCATION

Northwestern University | McCormick School of Engineering   Evanston, IL
Bachelor of Science Degree | Computer Science   Expected Graduation: June 2019

- Cumulative GPA: 3.88/4.00
- Murphy Scholar (Grant to pursue technology research, weekly seminars by Northwestern research faculty)

Upper-level Coursework: Algorithms; Design, Technology, and Research; Software Construction; Operating Systems; Networking; Computer Systems, Databases, Programming Languages, Human-Computer Interaction, Machine Learning
Skills: Java, C++, Ruby on Rails, R, Python, SQL, HTML/CSS, JavaScript, Node.js, Swift (beginner)

EXPERIENCE

Braintree Payments

Software Engineering Intern, Product Expansion   *Summer 2018*

- Wrote production-level code in Ruby on Rails to expand processing in Australia to handle billions of transactions per year; worked with Kafka, Postgres, and Amazon S3, with a focus on test-driven development and pair programming

Software Engineering Intern, Cloud Infrastructure   *Summer 2017*

- Added Kubernetes to Braintree's tech stack to automate application deployments and scaling, improve resource allocation, and efficiently respond to customer demand; committed production-level code in Go, Python, and Ruby
- Developed internal developer tools like a SlackBot to notify teams of their failed deployments and alert on unhealthy metrics reports; work included configuration, deployment, testing, and documentation

Delta Lab

Undergraduate Researcher   *January 2018 - Present*

- Researching last-mile obstacles in 'on-the-go' physical crowdsourcing systems in which helpers deliver packages with minimal disruption to their everyday routines; conducting user research and working with Node.js and Swift

Over

Software Engineering Intern   *Summer 2016*

- Created a KPI dashboard using Ruby on Rails to establish a baseline for company goals and promote transparency
- Developed the beta version of an iOS feature that uses image recognition to generate clever captions for images

Women in Computing   *March 2017 – Present*
External President

- Mentoring and directing a 10-person exec board and 100+ member organization
- Designed a sponsorship package and raised over $12,000 in funding from 6 partner companies, quadrupling our organization's budget to empower members through community building, professional development, and tech talks

PROJECTS

ByteSize (Swift) – iOS application to coordinate crowdsourced on-the-go food delivery
MeetMe (Javascript) – Google Calendar integrated meeting scheduling application
Tsuro (Java) – networked bot for the Tsuro board game
Escape (R, Swift) – iOS application to generate travel itineraries based on user interests, location, and schedule

ADDITIONAL

Languages: English (Native), Mandarin (Intermediary), French (Basic Conversation)
Activities: Delta Gamma Sorority, Society of Women Engineers, Alpha Kappa Psi Business Fraternity, Computer Science TA
Interests: Product Engineering, Physical Crowdsourcing, Travel, Skiing, Exotic Foods, Photography, Adrenaline