

JAMES LU

Student and developer

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OBJECTIVE

To obtain a full-time full-stack or back-end software engineering position starting in spring 2020.

EDUCATION

Georgia Institute of Technology | Atlanta, GA
Aug 2016 - Dec 2019

- B.S. in Computer Science
- Intelligence, Info-Internetworks
- GPA: 3.91/4.00

SKILLS

Languages

- Javascript, Typescript, React, HTML/CSS, Python, ReasonML, Java, PHP/Hack, SQL, Android, C, Assembly (Intel), Electron, Flask, SCSS, Redux

Tools & Libraries

- Git, Mercurial, npm, VSCode, Atom/Nuclide, IDA Pro, express, Phabricator, postgres, Adobe Suite, scikit-learn, rasa

PROJECTS

Ballot | Sept 2018 - Present

- Created a full-stack web application with React/NodeJS to import hackathon projects uploaded to Devpost, assign expo tables, allow judges to score projects, and view final rankings.
- Optimized judge project assignments to provide high-scoring and high-variation projects with more judges.
- Utilized concurrently by 800+ students and judges with nearly 200 projects during the HackGT 5 expo, along with 40+ additional projects at smaller HackGT events.

Graphical Clock-In | Jan 2019 - Feb 2019

- Built an Electron application to allow users to clock into events with a tap or swipe of a student ID card.
- Implemented colorful full-screen status screens with sound to allow the application to be used without supervision.
- Integrated with Georgia Tech's OrgSync and Engage platforms to monitor and track attendance during meetings and other events.

Hershey NHS Website | Aug 2015 - Jan 2018

- Built multiple versions of a PHP/MySQL-based website for Hershey High School's 180+ yearly national honor society members, officers, and advisors to access and edit critical data.
- Used by 500+ students over the course of the website's lifetime since initial launch.

EXPERIENCE

Facebook | Menlo Park, CA

Software Engineer Intern | May 2019 - Aug 2019

- Optimized code responsible for creating groups and sending group messages, affecting the 1.3 billion Facebook Messenger users.
- Worked in a continuous integration environment, pushing code changes directly to master and quickly to production.
- Used ReasonML and React to create and update internal tools to more efficiently and safely debug issues relating message folder routing, with a special focus on tracking private user data access.

Civic Data & Design at Georgia Tech | Atlanta, GA

Student Researcher | Aug 2018 - Present

- Designed a database in collaboration with partners to consolidate affordable housing data for thousands of affordable units from multiple Atlanta-based public and private organizations.
- Worked in collaboration with participatory design researchers to design a user interface that provides the most relevant information as quickly and intuitively as possible.
- Designed an interactive web app to visualize hundreds of affordable housing locations and expiration dates in metro Atlanta.
- Created map visualizations to show hundreds of land code violations relative to property owners to demonstrate land speculation in an underserved Atlanta neighborhood.

HackGT | Atlanta, GA

Director of Operations | Nov 2018 - Present

Member | Nov 2016 - Nov 2018

- Direct team of 50+ students to push HackGT's mission of promoting non-traditional STEM education to students.
- Organize the largest collegiate hackathon in the South with 25+ corporate sponsors, 20+ workshops, and 1000+ participants.
- Plan and run Catalyst, HackGT's day of STEM education for high-school students in the Atlanta metro area, and other smaller events, serving an additional 500+ Georgia Tech students each year.

Verizon Connect | Atlanta, GA

Software Engineer Intern | Jun 2018 - Aug 2018

- Created a proof-of-concept for an activity feed to reorganize system-generated content and implement new social functionality.
- Developed a user-facing Android application to display data from the database and React web application.
- Created a chatbot with Rasa Core/NLU, spaCy/scikit-learn pipeline.
- Implemented a REST API in Python with Flask for creating, reading, updating, and deleting data in the database.
- Developed a React/Typescript web application to allow testers to dynamically add and remove content to the activity feed.

Wreck Techs at Georgia Tech | Atlanta, GA

Residential Technology Advisor | Aug 2017 - Present

- Provide walk-in, phone, live chat, email, and in-room support for technology and networking infrastructure in Georgia Tech Housing for students living on-campus.