SAMUEL ZHANG

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EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
GPA 3.89/4.00   *September 2016 – May 2020*
Candidate for Bachelor of Science, Computer Science

- Automated Algorithm Design VIP Research Project: Evolutionary Framework to Hybrid Machine Learning
- Atlanta Studies Symposium Speaker: Sociotechnical Sustainability Community Development (2017)
- Courses: Introduction to Artificial Intelligence, Design & Analysis of Algorithms, Data Structures & Algorithms

PROFESSIONAL EXPERIENCES

AT&T Software Engineering   **Atlanta, GA**
Technology Development Program Intern   *June 2018 – August 2018*

- Designed and created Python script to automate statistical machine learning models for T-DATA Call Volume Reduction, generating over $3 million in savings annually
- Developed and deployed automated Agile unit tests for generated Vertica SQL queries using Pandas data frames to rapidly create and verify propensity to call models
- Built RESTful backend routing for prototype DirecTV package recommendation interface on MERN stack
- Designed and implemented scalable MongoDB database for customer survey storage

Epic Intentions – Georgia Works!   **Atlanta, GA**
Team Leader   *September 2017 – December 2017*

- Led team of 7 to create SQL database with Flask and Jinja templates for nonprofit serving 200+ homeless people
- Evaluated architecture for security reliability with REST and implemented MySQL backend to insert/retrieve data
- Managed weekly objectives and Agile workflow with CFO to ensure accurate data and on-time delivery

AT&T Technology Operations – Teleconferencing Tier 2   **Atlanta, GA**
Technology Development Program Intern   *May 2017 – August 2017*

- Managed escalations and customer experience from Fortune 500 companies i.e. IBM, DuPont, and Macquarie
- Identified, isolated, and managed resolutions to teleconferencing network/platform troubles for CAAS programs such as AT&T Connect, Microsoft Lync, and Cisco WebEx with AT&T Audio Integration
- Prepared and delivered daily operations report and conducted replication and cooperative tests with global teams

PERSONAL PROJECTS

HackGT – Food-Mood

- Designed and demoed "Tinder for Food" Android app for groups of people to efficiently decide where to eat
- Integrated non-blocking asynchronous multithreading parsing JSON geolocation data from Google Places API
- Optimized cost and runtime efficiency by limiting API queries and allowing compatibility with SDK 26

StuyBooks Online Marketplace

- Recruited and managed team of 3 in an Agile project workflow to create book marketplace
- Deployed RESTful Flask application integrated with Google OAuth, and Reddit-based voting system using the Wilson binomial proportion confidence interval
- Optimized database queries for MongoDB architecture hosted on self-hosted Apache-based web server

SKILLS & INTERESTS

Languages	Python, Java, JavaScript, SQL, C, HTML 5, CSS, XML, Scheme
Frameworks	MongoDB, Vertica, Pandas, NodeJS, ExpressJS, Flask, Git, Apache
Operating Systems	Mac OS, Windows, Linux / UNIX
Foreign Languages	Native in English and Mandarin Chinese
Other	French-American dual-citizen with work authorization in the U.S. and Europe