

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 concentrating in Intelligence/Information Internetworks

- 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 i.e. 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 to parse 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 selling 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, Express, Flask, Git, Apache

Foreign Languages

Native in English and Mandarin Chinese

Other

French-American dual-citizen with work authorization in the U.S. and Europe