

SHIVAM PATEL

GEORGIA INSTITUTE OF TECHNOLOGY

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EDUCATION

Georgia Institute of Technology – 2nd Year

Atlanta, Georgia

Candidate for Bachelor of Science in Computer Science

August 2015 – Spring 2018

GPA: 3.8

- **Related Coursework:** Data Structures and Algorithms, Database Systems, Data Manipulation for Science and Industry, Functional Programming, Object-Oriented Programming, User Interface Design, Probability and Statistics, Data Scraping/Mining, Objects and Design
- **Programming:** Python (Redis, Angr, XML, Urllib), SQL (MySQL, NoSQL), HTML/CSS, Java(JavaFX), PHP (pChart), JavaScript (D3.js, Plottable.js, jQuery, Node.js, AJAX), Android
- **Business skills:** Agile Methodology, Arena Simulation/Process Optimization, Tableau, Excel/VBA

PROFESSIONAL EXPERIENCE

United Parcel Service, Inc. (UPS) – Software Developer Intern

May 2016 – August 2016

- *Main technical skills developed:* Python, C#, MySQL
- My project was to simulate the UPS Ground Freight Network to better understand terminal capacity and provide a platform for scenario analysis. Thus, the model will produce results that represent how proposed UPGF Operational changes affected the overall network.
- I finished my project and was successfully able to model the entire UPGF Network and produced results that stated there were **saving opportunities of up to a \$1,000,000**.
 - Presented these results to the Director of Transportation Analytics and Vice President of Transportation at UPS.

The Home Depot Technology, Inc. Innovation Center – R&D Associate Developer

January 2017 – Present

- Iterative rapid development of both software and hardware/robotic technologies targeted to improve consumer/employee experience.
- Developing an aisle-side kiosk system for contractor-type customers to print custom billable receipts based on current/previous orders.
- Currently designing non-GPS methods to build a robotic person-tracking shopping cart.

RESEARCH

Vertical Integrated Project – Georgia Tech eStadium

January 2016 – May 2017

- **Technologies:** Wireless and sensor networks, distributed systems, social networks, cloud computing, multi-media web applications, databases, games, graphics, user interface design. sensors.
- **Research Issues:** Scalable delivery of multi-media content over wireless channels; formation of transient social networks, peer-to-peer video streaming; data visualization; design/optimization of wireless networks; design/applications of sensor networks; distributed detection/estimation; structural health monitoring; game design/deployment.
- **Main website:** <http://estadium.gatech.edu/dashboard/>

PROJECTS

- **Stock Market/Thrift Store Program** – Allowed users to buy and sell items stored in a database and Components: GUI, Database, Data-Manipulation, UI, Web-Scraping, RegEx
- **UPS Inc. F-LASS Automation** – Allows input for database query, generates SQL query and updates tables in database, runs C# optimization on tables, and results displayed in well-designed GUI.
- **Civilization** – Java-based program that replicates the original Civilization game in 1991.

SKILLS

- **Interests:** Dancing, Basketball, TV/Movies, Research, Coding, Football, Strategy-Focused games
- **Affiliations:** Georgia Tech Consulting Club, BAPS, Jazba/Bhangra, UISA – ATL Tamasha
- **Computer Science Clubs:** Big Data Club, iOS Club, GT Greyhat- Information Security, GT WebDev