

Nicholas Worthington

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EDUCATION

Georgia Institute of Technology, College of Computing
Bachelor of Science in Computer Science (May 2020 Graduation)

Atlanta, Georgia
GPA: 3.78

- **Concentrations / Threads:** Artificial Intelligence & Info Internetworks
- **Coursework:** Object-Oriented Design, Data Structures and Algorithms, Systems and Networks, Databases, Intro to AI, Computer Vision, Advanced Algorithms, Info Visualization, Probability and Statistics, Machine Learning for Trading

EXPERIENCE

Bank of America Merrill Lynch (New York, NY) – Technology Summer Analyst

June – August 2019

- Contributed to a client facing iOS application for financial research and capital market information
- Developed module for research teams to engage clients through dynamic in-app polls and surveys
- Leveraged CocoaPods for dependency management and MuleSoft APIs for creating & accessing data endpoints
- Applied object-oriented / MVC design patterns in Swift & took feature into production environment

LexisNexis Risk Solutions (Alpharetta, GA) – Software Engineer Intern

May – August 2018

- Worked on the Rules Framework platform, a SOAP web-service that handles 2 million daily orders
- Developed acceptance tests using Java, Cucumber, and Karate, parsing requests / responses in JSON, XML
- Automated the acceptance tests to run using GitLab Continuous Integration (CI)

GT College of Computing (Atlanta, GA) – CS 1332 Teacher's Assistant

January 2018 – Present

- One of 11 students selected from over 100 applicants for the **Data Structures and Algorithms in Java** course
- Taught weekly recitations to 50 students, held office hours, and graded homework assignments and exams
- Maintained and updated auto-grading software built in React, Redux, Electron, and Java
- Received a **4.93/5** rating on overall effectiveness as a TA from the student course feedback surveys

PROJECTS

Portfolio Optimizer (Python, Pandas, NumPy) – 1-person project

August – November 2019

- Python program that decides on an allocation of funds to different stocks in a portfolio to optimize its performance
- Applied the Sharpe Ratio to real stock data to measure and maximize risk-adjusted returns of each asset in the portfolio
- Experimented with a variety of ML algorithms and their effectiveness when applied to stock data

Talli (React, Node.js, Socket.io, Firebase) – 5-person project

September 2018 – June 2019

- Web application (**tallivote.com**) for hosting QR-code based audience voting at poster sessions & similar events
- Led the development of Node.js server that populated and analyzed a Google Sheet with voting results
- Increased voter participation at IPDPS conference (400+ attendees) by 50%

MLB Games Extension (React, MLB stats API) – 1-person project

May 2019

- MLB scoreboard popup window in the browser – an extension published to the Google Chrome web store
- Utilized the MLB Stats API to update game information like scores, innings, and baserunners in real-time

Atlanta Beltline Application (Python/Flask, SQL, HTML) – 4-person project

April 2019

- Web application for storing and tracking information about Atlanta Beltline sites, events, and employees
- Created 35+ dynamic screens with HTML/Bootstrap and used Python to route data to and from an SQL database

TECHNICAL SKILLS

Programming Languages

Java, JavaScript, Python, Swift, C, HTML/CSS

Technologies

React, Node.js, Git, SQL, Pandas, NumPy, Flask, Socket.io, Bootstrap, Xcode, UIKit, Cucumber

LEADERSHIP / INVOLVEMENTS

FASET (Georgia Tech Orientation) Leader

March – September 2018

- Spent over 200 hours planning and executing orientation activities for 4,500 incoming students and their families

Kappa Sigma Fraternity - VP of Recruitment

September 2017 - 2018

- Led a 25-man committee in the planning and organization of all things related to new member recruitment

For The Kids (FTK) at Georgia Tech – Recruitment Committee

September 2017 – March 2019

- Recruited 1000+ students to attend Dance Marathon philanthropy event, and individually raised over \$2500 for the cause