

Zaid Baghal

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Education

Georgia Institute of Technology

Atlanta, GA

MASTERS'S DEGREE IN COMPUTER SCIENCE

Expected Graduation: May 2025

- **Relevant Coursework:** Machine Learning for Trading, Graduate Introduction to Operating Systems, Software Development Process, Computer Networks, Video Game Design, AI Ethics & Society

Rutgers University

New Brunswick, NJ

BACHELOR'S DEGREE IN COMPUTER SCIENCE

Graduated: May 2020

- **Relevant Coursework:** Data Structures, Design and Analysis of Computer Algorithms, Introduction to Artificial Intelligence, Introduction to Data Science, Principles of Programming Languages, Computer Architecture, Internet Technology, Principles of Information and Data Management, Calculus I and II, Discrete Structures I and II, Linear Algebra, Introduction to Computer Science
- **Activities:** Rutgers University Mobile Application Development Club, Rutgers Undergraduate Student Alliance of Computer Scientists

Skills

Programming Python, Java, C++, C, JavaScript, TypeScript, HTML, CSS, Sass, Angular, React, Vue.js, Node.js, Express.js, Flask, PostgreSQL, GraphQL
Tools Git, Github, Bitbucket, Docker, Jira, Trello, Jenkins, Linux, Adobe Creative Cloud (XD, Photoshop, Premiere Pro), Microsoft Office

Experience

Bloomberg L.P.

New York, NY

SOFTWARE ENGINEER (RTC PLATFORM TEAM, MARS COLLATERAL TEAM, BUSINESS ENTITLEMENT AND REGISTRATION TEAM)

Mar. 2021 - Now

- Enhanced and maintained a large-scale user authorization applications, permissioning systems and web portals using React, TypeScript, PostgreSQL, Python, and C++.
- Led robust refactoring efforts that enhanced system efficiency, scalability, and supported evolving and complex requirements.
- Developed and implemented several interactive widgets and UI components utilized by multiple teams across the organization, providing real-time data and insights to thousands of clients. Collaborated extensively with UX teams to meet design and accessibility requirements.
- Engaged in extensive research and design of a high-performance and low-latency SWIFT system, contributing to the integration of financial messaging services within the organization. Ensured compliance with international standards, and accounted for safety standards and critical edge cases.
- Designed and maintained a comprehensive diagnostics tool for an in-house video chat platform, enabling efficient bug diagnosis and triage. Integrated features for real-time data retrieval, parsing, and visualization, enhancing support capabilities and significantly reducing turnaround time.
- Developed APIs focused on futures and options derivatives, improving the accessibility and accuracy of financial data across platforms, significantly enhancing user experience and data reliability.
- Managed hundreds of tickets and client requests during on-call schedules, demonstrating the ability to handle high-pressure situations and provide timely and effective support both internally and client-facing. Collaborated with cross-functional teams to gather and translate client requirements.

Bank of America Corp.

Jersey City, NJ

SOFTWARE ENGINEER (CONSUMER SMALL BUSINESS AND WEALTH MANAGEMENT TEAM)

Jul. 2020 - Mar. 2021

- Spearheaded the development of a large-scale web product, managing the end-to-end design and implementation of reusable and scalable UI components to enhance user experience and streamline development processes.
- Handled a significant volume of development tasks, ensuring timely delivery of high-quality software solutions while working with minimal guidance and oversight. Rapidly self-taught in multiple new technologies, leading to accelerated onboarding and immediate contributions to project success.
- Provided on-the-job training and mentorship to multiple teammates, fostering a collaborative environment and accelerating team productivity.
- Utilized a wide range of technologies including Angular, Node.js, and Javascript to design, develop, and maintain state-of-the-art applications.

IBM Corp.

Armonk, NY

SOFTWARE ENGINEER: INTERNSHIP AND CO-OP (INNOVATION TEAM)

Jun. 2019 - May 2020

- Built front-end components for reuse across multiple projects involving data, graphs, and user experience/design considerations.
- Created a product offering using design thinking processes to run artificial intelligence, analytics, and blockchain on IBM Z servers.
- Created an internal portal to upload, parse, reduce, filter and display data on revenue, contracts, and profit erosion over time.
- Developed process of automatically creating charts using this data, saving days of labor from analysts. The process now only takes a few minutes. Built using Javascript, HTML/CSS, Vue.js, Node.js, IBM Cloud, Sketch.

Projects

Algorithm Visualizer

SOFTWARE ENGINEER

- Created an application that displays and visualizes various algorithms in an interactive environment to facilitate learning and understanding of sorting, searching, and pathfinding algorithms in computer science. This includes array generation, maze generation, and element searching. The application has been used over a thousand times by users worldwide, with positive feedback leading to continuous feature enhancements.
- Implemented many algorithms such as: A* Search, Dijkstra's, Breadth First Search, Depth First Search, Merge Sort, Quick Sort, Bubble Sort, Insertion Sort, Selection Sort, Binary Search, etc. Added animations and a maze playground to view algorithms in different environments.
- Built using HTML, Sass, Javascript, Vue.js, Nuxt.js, Node.js, and deployed on Netlify.

Personal Portfolio and Blog

SOFTWARE ENGINEER

- Programmed and implemented a responsive portfolio showcasing current work and interests as well as blog posts and projects. The blog attracts hundreds of returning users, with ongoing engagement and interaction. Regularly updated content leading to improved user retention.
- Assembled animations, analytics tracking, responsive web design, user interfaces for both web and mobile, and blog integration.
- Designed a comprehensive sitemap, mockup, and prototype using Adobe XD, adhering to modern design guidelines.