# ROBERT TYLER LUPO

Secaucus, NJ | 973-459-1436 | robertlupo@outlook.com | linkedin.com/in/bobbylupo | bobbylupodev.github.io | github.com/bobbylupodev

## EDUCATION

**Northeastern University –** Boston, MA                                                                                   **Aug 2019 – Dec 2021**
*Master of Science in Computer Science* - GPA: 3.7/4.0
**Related Coursework:** Human-Computer Interaction, Data Management and Processing, UI Development, Foundations of Software Engineering, Object-Oriented Design, Algorithms, Mobile Application Development

**Rutgers University –** New Brunswick, NJ                                                                                              **May 2018**
*Bachelor of Arts in Human Resource Management* - GPA: 4.0/4.0 - Graduated Summa Cum Laude

## TECHNICAL KNOWLEDGE

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|---|---|
| **Languages:** | **Proficient:** Python, JavaScript, HTML5/CSS, R **Familiar:** C, Shell script, SQL, TypeScript, Java |
| **Software/Libraries:** | Node.js, React, Redux, Bootstrap5, Ant Design, AWS Services, ServiceNow, GitLab, Microsoft Office Suite |
| **Design/Mgmt Skills:** | Software Development Lifecycle Methodologies (i.e Agile, Scrum, Kanban), Test-Driven Development, Rapid Prototyping, Figma, Balsmiq, Axure RP, User Stories, Storyboarding, Wireframes, Trello, Confluence, Jira |
| **Certifications:** | AWS Cloud Practitioner Certification |

## WORK EXPERIENCE

**Amazon Web Services (AWS)** – Virtual Location                                                                   **June 2021 – Present**
*Professional Services Consultant Intern*
- Gather requirements from users and leadership to determine project milestones for the development of a user interface for an internal tool utilized by over 13,000 AWS employees.
- Conduct weekly sprint planning meetings with management to update project status and identify potential roadblocks.
- Design and implement the multi-functional user interface using React, JavaScript and an internal UI component library, focusing on data visualization at different levels of granularity.
- Analyze internal survey data with R and produce graphs that assist management in understanding employee satisfaction.

**Northeastern University, Khoury College of Computer Sciences** – Boston, MA                 **Jan 2020 – June 2021**
*Graduate Teaching Assistant*
- Provided academic support and instruction to students of the graduate level course Intensive Foundations of CS in Python.
- Designed additional course materials for one-on-one tutoring sessions to strengthen students' understanding of tradeoffs between different approaches to programming problems in Python.
- Facilitated and organized weekly small-group online course activities during recitation sessions that were tailored to students' learning needs and preferences.

**Precision System Design** – Basking Ridge, NJ                                                                       **Jan 2018 – Aug 2019**
*Technical Recruiter*
- Facilitated end-to-end recruitment for contract and permanent requisitions for Fortune 500 clients within the IT industry.
- Partnered with the Director of Internal Recruitment to revise the sourcing strategy for recruitment of recent college graduates and experienced recruiters resulting in a more refined talent pool.

## PROJECT EXPERIENCE

**Northeastern University** – Boston, MA
- Developed an extensible social network application using React, Redux, and JavaScript for the frontend and Google's Firestore NoSQL database for the backend. This application supports synchronous interaction between multiple users including image-sharing, real-time commenting, and messaging functionalities.
- Cleaned and performed exploratory data analysis on a video game sales dataset and identified key variables for building a predictor of game sales over the course of three decades spanning multiple global regions.
- Designed a high-fidelity prototype with Axure RP for a COVID-19 student tracing application that serves as an integrated platform for test appointments, self-reporting, and supporting resources. Followed an iterative, human-centered design process and produced project deliverables such as contextual inquiry and requirements reports, user stories, and wireframes.
- Implemented a GUI-based Java animator application that supports multiple input formats such as SVG and text-based encoding of animation and allows flexible playback control with one other individual. Led the project design process and incorporated object-oriented design principles, which allowed additional functional components to be easily added.

**Virtual Network-wide ServiceNow and Accenture Graduate Student Hackathon** (*1st place among 12 teams*)
- Led a group of four individuals in the design and implementation of a ServiceNow application that centralizes the management of issues in residential student life by creating a one-stop shop for students, residential assistants, and department admins.