

RUBIN ROY

Danville, CA, 94506 • (925)-548-6045 • rubin.roy01@gmail.com • [linkedin.com/in/rubin-r](https://www.linkedin.com/in/rubin-r) • <https://github.com/rubinroy1>

EDUCATION

THE GEORGE WASHINGTON UNIVERSITY

Washington, DC

BS in Computer Science, Minors in Math & Bioinformatics, 3.8 GPA

May 2023

Dean's List, Presidential Merit Scholar Sophomore of the Year – School of Engineering, Civic Engagement Scholar

Algorithms (graduate), Databases, Discrete Math, Operating Systems, Machine Learning, Computer Security, Calculus III

SKILLS

- Languages: Python (Pandas, sci-kit learn), C/C++, SQL, JavaScript (Node.js, Angular, jQuery), Java
- Tools: React, AWS, Azure, MongoDB, Git, Linux, MapReduce, Spark, Hadoop, Kubernetes, Keras, PyTorch, Databricks, TensorFlow, Tableau, RStudio, Shiny, MATLAB, LaTeX, SAS, SPSS, Stata, SciPy, NumPy, matplotlib
- Software: Multisim, Office (Word, Excel, PowerPoint, Access, Outlook), VBA, GIS, Figma, Adobe Creative Suite

EXPERIENCE

MICROSOFT CORPORATION

Redmond, WA

Incoming Program Manager Intern

Summer 2022

- Will be a summer program manager intern contributing to product development for the Microsoft Office team.

APEX ANALYTICA (Pre-seed Startup)

Washington, DC

Software Engineer

Dec. 2020 – Present

- Led end-to-end development of data visualization platform that forecasted resource needs using COVID data.
- Built MVP using Python, managed documentation, and presented to 5+ venture investors for seed round.
- Implemented machine learning optimization using Vaex and reduced simulated tradeoffs on datasets of 10 million+.

HARVARD BUSINESS SCHOOL ALUMNI FUND

Cambridge, MA

Quantitative Investment Analyst

Mar. 2021 – Present

- Analyzed data for HBS alumni investing in fantasy soccer NFTs, resulting in 99th percentile market returns.
- Coordinated with employees from Facebook, McKinsey, and Blackstone to drive over \$100,000 in fundraising.
- Developed performance metrics and constructed models with R and GraphQL to analyze risk profiles of 100+ assets.

NASA/GW CUBE SATELLITE PROJECT

Washington, DC

Lead Software Engineer

Sept. 2019 – Present

- Led 10-member team tasked with developing all PC-104 on-board computer systems and grew team by ~30%.
- Analyzed circuits, used I2C, UARM, and ECAN protocols, and programmed FPGAs for optimal functionality.
- Designed and implemented all memory allocation systems using C (self-taught) and built testing infrastructure.
- Conducted design review sessions for 20+ researchers and liaised directly with 10+ team leads and federal employees.

BOONE GROUP

Washington, DC

Data Intern

May 2020 – Aug. 2020

- Spearheaded frontend development for website used by 10+ customers using the Webflow and Slack APIs.
- Built and scaled a survey system to track morale of 20+ off-site employees saving ~30 person-hours per week.

PROJECTS

Satellite Thruster Startup (i-Corps)

- Conducted 10+ customer research interviews to understand user requirements and competitor dynamics.
- Analyzed customers, established PRDs, developed go-to-market strategy, and created pitch deck for investors.

User Security Laboratory Password Storage Reference (in-progress)

- Built password storage platform with 2-factor authentication for using Python, Django, and Flask for internal lab use.

ACTIVITIES & INTERESTS

- **Organizations:** GW Cyber (President), GW Innovation Grant Advisor, Investment Club (VP), Intro Python TA
- **Interests:** Community Service, Education, Aviation, Public Speaking (coaching and competing), Creative Writing