Bennett Kahn

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Education

Tulane University — New Orleans, LA
B.S. in Computer Science and Mathematics (GPA: 3.94/4.0*)* — *Aug. 2019 – May 2023*

Experience

Research Intern — June 2022 – Aug. 2022
National Security Agency Future Computing Summer Internship — *Baltimore, MD*
- Developed discriminative and generative machine learning (ML) models to classify and generate auxiliary arrays for the Reverse Ising Problem
- Used agency supercomputers to conduct ML on large data sets (High-performance computing)
- Built out project-specific ML pipeline functionality for research team

Cybersecurity Research Assistant — Aug. 2021 – May 2022
UNC Charlotte (NSF-funded REU in Computing) — *Metairie, LA*
- Coauthored manuscript about the potential use of memory corruption vulnerabilities for hijacking IoT devices; simulated attacks compromising up to 200 IoT devices
- Developed Proof-of-Concept Exploits against vulnerabilities in software stacks used in tens of millions of devices
- Contributed to research proposals for topics, such as software verification and software diversity

Computer Science (Python) Tutor — Jan 2021 – May 2021
Juni Learning — *Metairie, LA*
- Tutored elementary students and encouraged problem solving and conceptual understanding of core computer science concepts

Projects

Software Developer | Press Release Schedule Manager — Jan. 2021 – Present
- Developing Django web app to manage scheduling of a $1 million public relations budget for local law firm
- Using machine learning to optimize schedule, given 20-30 timing/budget constraints

Software Developer | Court Watch Nola Data Dashboard — Jan. 2022 – Aug. 2022
- Developed data dashboard for local .org (Court Watch Nola), enabling quick analysis of their roughly 460k existing data entries
- Used Django and HTML/CSS for dashboard; SQL for database

Data Scientist | Orleans Court and Police Data Analysis — Aug. 2021 – Dec. 2021
- Used an AWS EC2 instance to scrape 100,000 publicly available court dockets
- Analyzed collected data to discover biases in the Orleans Parish court systems, such as 4-5x higher bonds for certain minority groups, comparatively

Software Developer | Club Website Backend Development — June 2022 – Aug. 2022
- Developed login, account, and automatic attendance tracking functionality for the 300+ members of Cookies & Code (Tulane's computer science club)
- Integrated club Google Drive with website database for seamless updates

Technical Skills

Languages: Python, C/C++, Java, JavaScript, HTML/CSS, MiniZinc, Shell
Developer Tools: Git, GitHub, Docker, Heroku, AWS EC2, AWS S3, AWS IAM, PostgreSQL, GDB/GEF
Libraries: Django, Pandas, NumPy, PyTorch, Scikit-learn, Ropper
General: Machine learning, High-performance computing, cybersecurity, exploit development, agile development

Relevant Activities

Cookies & Code: *President*, Fall 2022 - Present; *VP*, Fall 2021 - Spring 2022; *Executive Board*, Fall 2019 - Spring 2020
Tulane Math Club: *Vice President*, Fall 2021 - Spring 2022; *Executive Board*, Spring 2020 - Spring 2021