

# Bennett Kahn

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## EDUCATION

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### Tulane University

*B.S. in Computer Science and Mathematics (GPA: 3.94/4.0)*

New Orleans, LA

Aug. 2019 – May 2023

## EXPERIENCE

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### 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
- Built out project-specific ML pipeline functionality for research team
- Generated over 10 million feasible auxiliary arrays

### 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

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### 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

### 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

### 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 Black people, comparatively

### Club Website Backend Development

June 2022 – Aug. 2022

- Developed login, account, and automatic attendance tracking functionality for the 300+ members of Cookies & Code
- Integrated club Google Drive with website database for seamless updates

## TECHNICAL SKILLS

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**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

**Other:** Agile development practices, object-oriented development

## RELEVANT ACTIVITIES

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**Cookies & Code (Tulane's computer science club):** *President*, Fall 2022 - Present; *Vice President*, 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