OZANER HANSHA

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EDUCATION

Cornell Tech, New York, NY   Sep. 2022 - May 2023
Master of Engineering in Computer Science | GPA: 3.75
Merit Scholarship
Relevant Coursework: Machine Learning Engineering, Startup Studio, App Infrastructure,
Data Science, Deep Learning, Virtual/Augmented Reality

Rutgers University, New Brunswick, NJ   Sep. 2018 - May 2021
Bachelor of Science in Computer Science, Mathematics, & Cognitive Science | GPA: 3.73
Minor in Philosophy.
Honors: Magna Cum Laude, Dean's list, High honors in Computer Science and Cognitive Science
Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Probability Theory, Linear Optimization,
Differential Equations, Numerical Analysis, Deep Learning, Foundations of Quantum Mechanics

TECHNICAL SKILLS

Languages:	Python, C#, Dart, Typescript, Javascript, Java, HTML, CSS
Libraries/Frameworks:	PyTorch, Pandas, NumPy, Flutter, Astro, Svelte
Other Tools:	Git, LaTeX, Github CI/CD, Firebase

EXPERIENCE

HotTakes, Lead Developer, New York, NY   Jan. 2023 - Present
Audio-based Social Map app (Flutter, Dart, Typescript, Firebase)
- A mobile app that allows friends to share audio reviews about arbitrary locations on their own personal map.
- Finalist in Cornell Tech's startup awards. With 100+ beta testers currently using the app.
- **Led the development of the app** which included designing security schemes, implementing LLM models in our app pipeline, building CI/CD pipelines, app store/testflight integration, and creating serverless backend services.
- Also human challenges including managing/mentoring jr. developers and implementing designs/systems from the design team.

Twitch, Software Engineering Intern, Seattle, WA   June 2020 - Aug. 2020
- Developed a web service in Go to collect, consolidate, and display metrics on the health of other Twitch services.

PROJECTS

qRNG, (Python)
Cloud-based quantum random number generator
- Created an **open source Python package** that generates random numbers & data using IBM's publicly available quantum computers on the cloud. **Over 16,000 downloads** via the Python package index.
- Implements quantum algorithms for integer and floating point number generation.

OzTorch, (Python)
Machine Learning Library from Scratch
- A reimplementation of PyTorch made from scratch (i.e. no NumPy, or any other numeric library).
- **Implements core machine learning algorithms** (autodiff, gradient descent, convolutional networks) as well as the architecture that connects them.

pkuManager, (C#, Python, Dart)
A universal file format & file manager for Pokémon
- **Created a universal format** for storing Pokémon as files, as well as an application to store, catalog, and convert these files into other formats without loss of information.
- Enables cross-compatibility between 20+ games via conversion between multiple file formats.

LEADERSHIP

HackRU, Executive Director, New Brunswick, NJ   Dec. 2018 - May 2021
- Directed 6 subteams organizing one of the largest hackathons in the country.
- Interfaced with vendors, sponsors, non-profits, and administration.
- Held semesterly at Rutgers University with 600+ participants from colleges around the country.
- Successfully handled the migration to online in response to COVID, with its myriad technical and logistical difficulties.