

ELENA HERTEL

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Education

University of Chicago

B.S.: Majors - Computer Science & Biology
GPA: 3.68/4.00

Chicago, IL
September 2020 - June 2024

Relevant Coursework: Introduction to Computer Science I-II, Calculus II, Introduction to Quantitative Modeling in Biology, Introduction to Computer Systems, Discrete Mathematics, Theory of Algorithms, Advanced Algorithms, Functional Programming, Data Science for Computer Scientists, Introduction to Human-Computer Interaction

Princeton High School

Unweighted GPA: 3.93 / Weighted GPA: 4.43

Test Scores: ACT: 35/36; AP Tests: Statistics, Computer Science, Calculus BC, French, English, Biology, Chemistry - 5/5;
SAT Subject Tests: Math, Biology - 800/800

Princeton, NJ

September 2016 – June 2019

Employment

Human Computer Integration Lab, University of Chicago

February 2024 - Present

Researcher - part-time

Chicago, IL

- Researching electrical muscle stimulation (EMS) based intervention for dermatillomania/onychophagia
- Developing Apple Watch application in Swift to detect and classify harmful compulsive behaviors; Application to be combined with EMS for future user studies
- Reading and processing accelerometer/gyroscope data and training activity classification models

Hamilton Insurance Group

June 2023 - August 2023

Software Development Intern

London, England

- Worked as full-stack developer on the AI development team
- Facilitated implementation of GPT language model to expedite insurance submission processing
- Instrumental in developing tool used by company globally, increasing efficiency and business production
- Created and modified web components in ReactJS; wrote component tests for deployment pipeline
- Wrote functions for document pre-processing and corresponding unit tests in Python

Blinklab

September 2022 - June 2023

Clinical Research Associate - part-time

Princeton, NJ

- Worked for biotech startup, utilizing smartphone technology to diagnose/monitor neurological conditions
- Independently led Chicago-based data collection to advance global autism study
- Completed data normalization and analysis in R to verify and ultimately to improve tool performance

Janssen Pharmaceuticals (Johnson & Johnson)

June 2022 - September 2022

Quality Control Intern

Malvern, PA

- Assisted in execution and documentation of company's first virtual audit
- Designed and developed QR Code PowerApp system to track issuance, location, and archiving of data logbooks

Generation Biotech & Neuropair

June 2021 - September 2021

Laboratory Intern

Princeton, NJ

- Worked directly with Founder/CEO and Chief Scientist
- Designed and executed experiments related to novel DNA sequencing technology and spinal cord repairs

Extracurriculars

Food Recovery Network

October 2020 - June 2023

Member of school organization addressing environmental justice and food insecurity by recovering leftover food on campus for distribution to local shelters and community centers

MEDLIFE

October 2020 - June 2023

Member of community service committee organizing local events and service projects for low income families

Skills/Interests

Spoken languages: Fluent in English, German, and French

Programming languages: C, Python, Java, ReactJS, R, Haskell, Swift

Interests: crocheting, fishing, snowboarding, rubik's cube