

# Neil Estrada

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## EDUCATION

### Cornell University

Ithaca, NY

*Bachelor of Science in Computer Science*

*Aug. 2020 – May. 2024*

- Coursework in Honors Object Oriented Design and Data Structures, Discrete Structures, Functional Programming, Computer System Organization, Natural Language Processing, Operating Systems, Machine Learning, Networks.
- Coursework in Statistics, Linear Algebra, Optimization, Multivariable Calculus, Economics, Chemistry, Physics.

## EXPERIENCE

### Google SWE Intern

May. 2023 – Aug. 2023

*Google Chrome Engineering Productivity*

*Kirkland, WA*

- Designed and built automated end-end UI Testing framework for Chromium's autofill service, replacing manual testing and saving the team dozens of hours per week.
- Ensured Compatibility with the Top 500 most trafficked commerce sites in the world, providing faster metrics and regression tracking for these sites.
- Engineered a complex system including a custom Android Autofill Service, parsing of complex testing instructions, combination of numerous Android WebView and traditional UI testing frameworks to ensure complete coverage.

### Google STEP Intern

May. 2022 – Aug. 2022

*Cloud Infrastructure Team*

*New York City, NY*

- Built highly requested internal debugging tool for Google's Pub/Sub distributed message delivery service.
- Engineered code that aggregated statistics of messages sent by servers but not properly acknowledged by clients, that handled concurrency on multiple levels and callbacks across distributed systems using Java.
- Completed multiple parts of the development process, including writing design docs, going through design reviews, implementation, and launching internally

### Google STEP Intern

May. 2021 – Aug. 2021

*Cloud Infrastructure Team*

*Mountain View, CA*

- Wrote queries for sources of key infrastructure data, cached information efficiently, persisted in reliable database.
- Developed a resilient Java API to be used for financially pertinent compute management decisions at Google.
- Worked alongside different teams and project areas to ensure that the product met desired functionality.

### Cornell Data Science Member

Feb. 2021 – Present

*Intelligent Systems*

*Ithaca, NY*

- Worked on a traffic signal optimization project, Dynamic Traffic Systems, which used a Monte Carlo simulation to discover ideal traffic signal timings.
- Worked on a Reinforcement Learning project, SmashAI, which used models including actor-critic and Deep Q-networks to train an agent to play the video game 'Smash Bros' at a high level.
- Presented to the organization about an influential NLP paper, "The curious case of neural text degeneration".

## OTHER ACCOMPLISHMENTS.

- Effective Communicator: Numerous years of competitive debate culminating in presenting my own Infrastructure Funding bill to the New Jersey State Legislature.
- Seeking Impact: Placed in New Jersey Congressional App Challenge with app designed to track Carbon Emissions.
- Management Savvy: As President of National Technical Honor Society, raised over 7,000 dollars through modern marketing and management techniques.

## TECHNICAL SKILLS

**Languages:** Java, Python, Julia, OCaml, C, Javascript, R, SQL

- Backend API Design/Development
- Machine Learning/Data Science
- End-End UI Testing Automation
- Concurrent System Design
- Economic Modeling and Simulation.
- Android App Development
- Natural Language Processing
- Database Design/Management
- Web Scraping/Web Testing Automation.
- Language Parsing, Tokenization, Interpretation.