

Peter SantaLucia

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TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS

Frameworks/Libraries: NumPy, Pandas, Matplotlib, Flask, JUnit

Technologies: Git, VS Code, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Webstorm

EDUCATION

Northeastern University | **GPA – 3.8**

Sep 2023 – Jun 2027

Candidate for BS in Computer Science with a minor in Biology.

Boston, MA

Related Courses: Fundamentals of Computer Science, Discrete Mathematics, Genetics and Molecular Biology

PROFESSIONAL EXPERIENCE

Software Developer Intern

Jun 2022 – Sep 2022

DNA Software

Plymouth, MI

- Designed and implemented a comprehensive Python script for analyzing DNA and RNA sequences, incorporating functionalities such as molecular weight calculation, extinction coefficient analysis, and hypochromicity assessment.
- Utilized pandas for managing and updating data frames that store modification parameters for single-stranded and complementary sequences, facilitating detailed extinction coefficient calculations across various wavelengths.
- Created graphical plots to visualize extinction coefficients across wavelengths, providing clear and informative visual outputs for data analysis and interpretation.

Shift Leader

Apr 2021 – Aug 2024

Village Ice Cream

Orchard Park, NY

- Led team of 2-3 other workers, facilitating smooth customer interactions and experiences. Responsible for resolving issues with machines or customer complaints. Was direct liaison between superiors and employees. Responsible for training new employees.

PROJECTS

Poker Bot

2024

- Developed a bot using Counter-Factual Regression Minimization to serve as non-player-characters when necessary, serving as an adapting, variable difficulty bot that strives towards Nash Equilibrium.
- Designed the back-end of a web application using Flask-Python. The table includes a dealer-set number of players, where any player slots not filled by people are played by bot.

EXTRACURRICULARS

Eagle Scout

Sep 2019 - May 2023

- Member of Boy Scouts for four years, leading up to the Eagle Scout Award. Planned a 100 hour service project that raised several thousand dollars, designed a garden for the local American Legion, and organized an extensive volunteering effort to build it.
- Gathered hundreds of hours of volunteering for various organizations as throughout my time as a scout.
- Served as a leader within the troop and on the planning council; attended monthly meetings to organize troop meetings, volunteering efforts, and camping events.

Photographer

2022 - Present

- Hobbyist Photographer passionate for landscape photography and portrait photography.
- Run weekend photography business, primarily selling headshots for linkedin.