Jason Lew

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GitHub: github.com/jasonlewcodes ⋆ Personal Website: jasonlewcodes.github.io/Jason-Lew-Personal-Site

EDUCATION

Bachelor of Science, Computer Science   *Expected Graduation: May 2025*

New Jersey Institute of Technology

Albert Dorman Honors College

- Double Minor in Applied Statistics and Business
- Relevant Coursework: Data Structures & Algorithms, Programming Language Concepts, Discrete Mathematics, Operating Systems, Introduction to Data Science, Probability & Statistics, Linear Algebra, Differential Equations
- Dorman Honors Scholar – Full Tuition Merit Scholarship
- GPA: 3.92/4.0

WORK EXPERIENCE

Software Development Intern - UPS, Parsippany, NJ   *Jun. 2023 - Present*

- Rewrite and migrate legacy application using Angular, TypeScript, HTML, and CSS.

Software Engineering Intern - PerfectRec, Seattle, WA   *May 2022 - Jun. 2023*

- Implemented 3 major software development projects: laptop recommendation page, product comparison tool, and back & skip buttons using React, JavaScript & TypeScript, HTML, CSS & TailwindCSS, NextJS, and PostgresSQL.
- Applied machine learning methodology to develop PerfectRec's laptop recommendation model using Pandas in Python (model NDCG = 0.578).
- Contributed 6,000+ lines of code to live site and data science repository.

Undergraduate Research Assistant - New Jersey Institute of Technology, Newark, NJ   *Feb. 2022 - Aug. 2022*

- Assisted researchers and graduate students in exploring interactive data science.
- Produced statistics for a new sequential triangle counting algorithm in Python to scale 2^{20} vertices.
- Submitted paper: A Novel Parallel Triangle Counting Algorithm with Reduced Communication (arXiv:2210.00389)

PROJECTS

Cervical Cancer Classification Machine Learning Model

- Classify cervical cancer diagnosis using dataset of 30+ risk factors and 800+ data points using Numpy, Pandas, Seaborn, Pyplot, and Imblearn in Python.
- Implement Logistic Regression model using SKLearn with 99%+ accuracy and visualize model statistics.

Personal Portfolio Website

- Develop personal portfolio site using React, JavaScript & TypeScript, HTML, CSS & TailwindCSS, and Gatsby hosted through GitHub Pages.
- Display programming projects in a pre-rendered webpage for fast load time.

Programming Language Lexical Analyzer, Parser, and Interpreter

- Assemble lexical analyzer with 33 token types, top-down recursive descent parser, and interpreter for programming language with 19 grammar rules in C++.

LEADERSHIP & ACTIVITIES

Chapter Treasurer - Alpha Phi Omega Service Fraternity   *Jan. 2023 - Present*

Jersey Cares Volunteer - Branch Brook Park, Newark, NJ   *Apr. 2022 - Present*

- Spend 15+ hours per semester maintaining care of the park in Branch Brook Park in Newark.

SKILLS

- Front-End: JavaScript & TypeScript, HTML, CSS & TailwindCSS, React, Angular, NextJS, Gatsby
- Back-End: Python, Java, C, C++, SQL
- Misc.: Git, Bash, GitHub Actions