

# Jason Lew

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## EDUCATION

### New Jersey Institute of Technology

Newark, NJ

Bachelor of Science in Computer Science, Double Minor in Applied Statistics & Business

Sept. 2021 - May 2025

- Albert Dorman Honors College – Full Tuition Merit Scholarship
- Relevant Coursework: Data Structures & Algorithms, Programming Language Concepts, Discrete Mathematics, Operating Systems, Introduction to Data Science, Probability & Statistics, Linear Algebra, Differential Equations
- 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, Next.js, and PostgreSQL.
- 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.

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, Java, SQL, C/C++, HTML/CSS
- **Frameworks:** React, Angular, Next.js, Gatsby, TailwindCSS
- **Developer Tools:** Git, Bash, GitHub Actions