Elizabeth Kirstein

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SUMMARY

Motivated and detail-oriented Computer Science student at Stevens Institute of Technology with hands-on experience in software development and data analysis. Proven ability to design and implement innovative solutions, demonstrated through internships and academic projects. Strong technical skills in Python, Java, C++, and cloud platforms (AWS, GCP). Effective communicator and team player with a passion for continuous learning and problem-solving.

EDUCATION

Stevens Institute of Technology – School of Engineering and Science | GPA: 3.5 **Hoboken, NJ**
Bachelor of Science in Computer Science *Expected Spring 2027*
Relevant Coursework: Algorithms, Data Structures, Computer Architecture and Organization
Campus Involvement: Student Athlete, Vice President Software Engineering Club

WORK EXPERIENCE

Stevens Institute of Technology – *Teaching Assistant for CS115 Intro to Computer Science* *Fall 2024*
- Taught a two-hour lab each week guiding students through coding assignments based on weekly lectures.
- Graded lab assignments, homework assignments, and tests.
- Hosted weekly office hours to provide one-on-one assistance with assignments and lecture topics.

Dropsuite – *Software Engineer Intern* *Summer 2024*
- Personally developed a program from scratch that finds personally identifiable information (PII) and calculates a risk score for documents in an S3 bucket using AWS Macie and SQLite.
- Personally developed a program from scratch that flags emails for dangerous links (malware, social engineering, or unwanted software) using Google Cloud's Web Risk API, Python BeautifulSoup for email parsing, and SQLite.
- Presented a demo for both projects during the company's bi-weekly sprint reviews.

PROJECT WORK

University of Washington CSE 163 – *General Study Topics* *Fall 2022 – Spring 2023*
- Studied multiple topics including machine learning, neural networks, algorithmic efficiency, geospatial data, hashing, convolutions, ethics, fairness, and privacy.

Income Inequality Final Project CSE 163 *Spring 2023*
- Collected, analyzed, and modeled national US income and inflation data using Python Pandas and Matplotlib.
- Merged, filtered and graphed trends to derive conclusions for initial research questions.
- Determined biases and limitations in the data to develop future research questions.

Spreadsheet App *Fall 2021*
- Developed an object-oriented spreadsheet app in Java that supported integers, doubles, strings, and dates.
- Ability to sort ascending or descending and add formulas for addition, subtraction, multiplication, division, average, and sum by referencing other cells.

Shifteez Web App *Spring 2022*
- Invented and developed a web app using JavaScript, HTML, and CSS that allows hourly wage workers to post personal shifts to a public calendar where other workers could swap or cover a posted shift.
- Supported monthly and weekly calendar views and ensured shifts would not overlap.

TECHNICAL SKILLS

Python, Java, C++, Amazon Web Services, Google Cloud Platform, Databases, SQLite, JavaScript, CSS, HTML