

Alexandra Paskhaver

Software Engineer

Phone: (609) 580 - 9693 | Email: alexandra.paskhaver@gmail.com

EXPERIENCE

Princeton University Investment Company / *Investment Technology Analyst* JUN 2022 - AUG 2022

Technologies used: Python, pandas, Microsoft Excel, Azure DevOps

- Wrote scripts to get, modify, and post data to a financial research management system
- Improved test coverage by 73% with the unittest module
- Refactored 27% of unit tests to mock API calls to decrease test runtime
- Created Python programs to accelerate the transfer of tens of rows of data into an Excel spreadsheet
- Found and analyzed corresponding entries between spreadsheets using difflib and regex, saving 20+ hours of manual searching per year

Udemy / *Online Instructor*

AUG 2021 - PRESENT

- Created the bestselling [Introduction to Political Science](#) course on Udemy
- Produced 5 hours of course material to engage 300+ students
- Designed 4 course logos with PhotoShop

PROJECTS

Video Transcription Research with Professor Ananda Gunawardena

Technologies used: Python, Flask, SpaCy, Gensim

- Built a website where a user could upload videos, transcribe them automatically, and perform searches for videos containing keywords or topics
- Researched and utilized natural language processing libraries to analyze video transcriptions for keywords suggesting subject transitions
- Improved test coverage to and maintained it at more than 80%
- Generated and displayed visualizations for data

Rutgers RUMobile

Technologies used: React Native, React Native Testing Library

[App Store](#)

[Google Play Store](#)

- Collaborated with a team of developers and designers to serve 3,000+ users
- Built 20+ components to display food details and profiles, welcome users, and more
- Improved test coverage of functions by 12% to limit errors
- Upgraded dependencies to ensure codebase was up-to-date

Personal Website

Technologies used: HTML, CSS, JavaScript

[GitHub](#)

- Built a stylized, responsive website to showcase my work
- Developed an appealing color theme

EDUCATION

Rutgers University / *School of Arts & Sciences Honors Program*

SEP 2021 - MAY 2025

- Pursuing a Bachelor's in Computer Science (GPA: 4.0)
- On Dean's List for 4 semesters

EXTRACURRICULARS

Humor Column

OCT 2022 - PRESENT

- Pitched and delivered a biweekly and weekly humor column to the Delaware County Daily Times and the Gettysburg Times, newspapers with a combined circulation of 50,000+
- Wrote the first humor column for the Rutgers SAS Honors Program Blog