

# Alexandra Paskhaver

Software Engineer

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## 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 over 300 students
- Designed 4 course logos with PhotoShop

## PROJECTS

**Zoom Recording Transcription Research with Professor Ananda Gunawardena**

Technologies used: Python, npm, Zoom API

- Fetched Cloud recordings from a Zoom user and automatically generated a transcription file with start and end times for each sentence fragment
- Researched and utilized natural language processing libraries to analyze video transcriptions for key words suggesting idea or subject transitions
- Improved test coverage to and maintained it at more than 80%
- Automatically displayed results in easy-to-read visual format

**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 3 semesters

## EXTRACURRICULARS

**Humor Column**

JAN 2023 - 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