

# 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%

**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

**Independent Study in Python**

[GitHub](#)

Technologies used: Python

- Covered 55+ hours of online course content including mocking, RegEx, virtual environments, and Scrapy
- Built a Texas Hold 'Em Poker game with a full test suite

## 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 around 50,000
- Wrote the first humor column for the Rutgers SAS Honors Program Blog