

# ENPU YOU

Software Developer, Pianist

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## EDUCATION

Bachelor of Science

Allegheny College

Aug 2017–May 2021 Meadville, PA

- **Majors:** Computer Science & Music
- **Honor:** Phi Beta Kappa
- **GPA:** CS 3.98 | Music 3.86 | Overall 3.87
- **Key coursework:** Algorithm Analysis, Software Engineering, Database Systems, Data Analytics, Compiler Development, Cloud Computing

## HONORS & AWARDS

Computer Science Faculty Prize May 2021

- Outstanding achievement in computer science in scholastic performance and contributions to the life of the department.

Edith Mead Osborne Memorial Fund Prize May 2021

- Music Department annual award to a senior student who shows marked musical ability, talent, or direction in voice, piano, or organ.

Distinguished Alden Scholar 2018 - 2021

- Academic honor for maintaining a 3.80 or higher grade point average for the year.

Outstanding Junior Major Prize May 2020

- Awarded for exceptional academic achievement, performance in the seminar, and contribution to the general life of the department.

Lauretta Good Strayer Prize May 2020

- A Mu Phi Epsilon Alumnae fund awarded to an outstanding piano or organ student.

Copper Scholar March 2019

- A fellowship supporting collaborative research project with a faculty at Allegheny College.

Frederick and Lucille Marantz Memorial Prize May 2019

- Annual award from the Department of Music to an outstanding piano student.

Alden Scholar 2017 - 2018

- Academic honor for maintaining a 3.50 or higher grade point average for the year.

## SKILLS

- Python, Java, C, JavaScript, TypeScript, Html, CSS, SQL, R.
- AWS, FastAPI, ReactJS, AngularJS, Gradle, Git, Docker, Django, SQLite3, MongoDB, Pytest, RStudio, NoSQL, Bash,  $\LaTeX$ , LinuxOS, Ableton, SuperCollider

## PROJECTS

Automated FastAPI-EC2-Streamlit Application

Dec. 2020

- Led team of 3 implemented an automated deployment web application that performs stock price and twitter sentiment relation analysis.
- Automated EC2 and API deployment with boto, FastAPI, and Docker using Python and Shell script; created customized visualization on Streamlit.

Tada: Automated Order-of-growth Analysis

May 2020

- Built and deployed Python CLI application in PyPI that ascertains worst-case time complexity for any arbitrary Python function.
- Implemented automated random data generation with JSONSchema for rigorous-fashion experiment. Increased test coverage to 98%.
- Designed and maintain documentation website with MkDocs; Enable automated release through CI/CD with Github Action.

Text Mining with Visualization

Apr. 2020

- Built Python visualized text mining application with CLI and web interface, presented at PyCon 2020 poster session.
- Designed and enabled automated deployment of a Gateway-Lambda-DynamoDB framework.
- Implemented topic modeling, similarity analysis with features including sentiment analysis and named-entity recognition with SpaCy and Gensim.
- Implemented a Gradle task that collects files in Github to DynamoDB.

Santa: Automated Testing Application

May 2019

- Led a team of 5 developing automated testing python plugin for course project.
- Designed and built a Pytest plugin framework that integrates automated type inferring and test data generation with MonkeyType and Hypothesis.

Java Framework for Alternating Variable Method

Aug. 2018

- Enabled Travis CI; developed usage documentation; increased test coverage.
- Researched in heuristic algorithms in search-based optimization problems.

## EXPERIENCE

CS Ethics Technical Leader

Aug. 2019-Present

- Built and maintained education applications in Python and Java.
- Assisted in course planning with CS ethics emphasis.

CS Teaching Assistant

Aug. 2019–Present

- Held weekly office hours and assisted in Software Engineering, Data Structure courses in lab, practical sessions, and examination preparations.

Club Founder/President

May 2019–Present

Electronic Music at Allegheny College

Meadville, PA

- Founded the first music club on campus, dedicates to establishing interdisciplinary art culture and providing platform for non-musicians to create music using Ableton, Max/Msp, Processing;
- Conducted Board meetings and collaborated with students and faculties from CS, Music, and Art departments.

Pianist | Stage Manager

July 2019–Aug. 2019

Montecito International Music Festival

Los Angeles, CA

- Performed in recitals and ensembles with world class musicians and students.
- Arranged stage settings and lights in concerts with stage crews and musicians.

Research Assistant

Aug. 2018–May 2019

- Collaborated with Dr. Sharon Wesoky and assisted in translating materials on Buddhist practitioners in China and Chinese feminism.