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
- **GPA**: CS 3.98 | Music 3.86 | Overall 3.87
- **Key coursework**:
  Data Structure, Discrete Structure,
  Data Abstraction, Algorithm Analysis,
  Software Engineering, Computer Organization,
  Database Systems, Data Analytics,
  Compiler Development, Cloud Computing,
  Software Innovation, Calculus, Linear Algebra,
  Wavelet Transformation

HONORS & AWARDS

Distinguished Alden Scholar

📅 2018 - 2020

- 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 Memorial Prize

📅 May 2020

- A fund, established by the Mu Phi Epsilon Alumnae Club of Meadville, awarded to an outstanding piano or organ student.

Cupper Scholar

📅 March 2019

- A fellowship/stipend that supports collaborative research project with a faculty member 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; customized visualization on Streamlit.

Tada: Automated Order-of-growth Analysis   May 2020

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

Text Mining with Visualization   Apr. 2020

- Built Python visualized text mining application with CLI and web interface.
- 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 framework to integrate automated type inferring and test data generation with MonkeyType and Hypothesis.

Java Framework for Alternating Variable Method   Aug. 2018

- Continuous integration with Travis CI; contributed to documentation of usage instruction; increased test coverage.
- Researched in global, local searching algorithms and applications in search-based optimization problems.

EXPERIENCE

Allegheny Mozilla Fellow   📅 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 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-music educated people 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.