Yanqiao Chen

Atlanta, GA| chenyqiao1126@gmail.com | 1 (814) 350-1514 | https://github.com/Yanqiao4396 | www.linkedin.com/in/yanqiao-chen

---

EDUCATION

Allegheny College, *Meadville, PA*   **Graduation: May 2024**
Bachelor of Science Degree in **Computer Science**   **Major GPA: 3.84/4.00**
Minor: Economics   **Cumulative GPA: 3.72/4.00**
Graduation Honor**:** Magna Cum Laude

Senior Thesis
TreeNose: A Language-Independent Code Smell Detector

Best CS Comprehensive Senior Project Prize (Award for the best comp(s) in CS department)   **May 2024**

Distinguishments
Best CS Comprehensive Senior Project Prize (Award for the best comp(s) in CS department)   **May 2024**
Distinguished Alden Scholar (Dean's List for achieving a 3.8+ GPA)   **September 2022 - May 2024**
Trustee Scholarship(Awarded for academic excellence)   **September 2020 - May 2024**
Cupper Scholar(Fellowship for supporting collaborative researches in computer science department)   **May 2022**

Relevant Coursework

Data Abstraction	Software Engineering	Algorithms Analysis
Web Development	Artificial Intelligence	Data Analytics
Operating Systems	Optimization & Approximation	Calculus II

PROFESSIONAL EXPERIENCE

Operations Analyst, *GreenSky, LLC - Business Transformation team*   **September 2024 - Current**
- Data Analysis & Visualization
  - Aggregate raw Customer Service data from Snowflake using SQL, building KPI metrics like Customer Satisfaction and Servicing Level to visualize Servicing seasonal performances
  - Build Tableau dashboards to live SQL data, providing real-time metric insights for cross-department leaderships
  - Analyze metric fluctuations by correlating product factors like seasonality, providing actionable insights adopted by 3+ Servicing departments
- LLM & NLP Model Design
  - Design OpenAI-oss models on AWS SageMaker and Bedrock to categorize call transcripts, fetch customer data (e.g. account numbers) and predict the call performances with satisfaction rate and second-contact likelihood
  - Clean and pre-process transcript data extracted from S3 into tidy and model-friendly format
- Process Optimization & Automation
  - Automate 10+ cross-functional workflows via Python scripts on Rundeck, saving 2 labor hours per day
- Cross-team Collaboration
  - Customer Communication: Work closely with 3+ cross-functional teams to understand their request, confirm data sources, build SQL projects, then deliver accurate and intuitive dashboards
  - Documentation: Create metric dictionaries and add code comments to ensure cross-team knowledge alignment
  -

Software Engineering Intern, *NetApp, Inc.*   **August 2023 - December 2023**

- Built a Node JS library to allow developers to programmatically interact with ONTAP PubSub messaging service
- Designed a React JS Web App that utilize the backend library to interact with ONTAP PubSub non-programmatically
- Implemented integration tests for the backend library by utilizing ONTAP REST API automation
- Collaborated in an Agile environment and attended weekly meetings to report work and attain feedback
- Presented findings and results to a team of 40 software engineers on-site in NetApp Pittsburgh office

URSCA Summer Research, *Allegheny College*   **May 2023 - July 2023**
- Developed a Python CLI tool for professors to fetch assignment grading data to analyze student performance
- Automated the procedure of fetching data discredited in different GitHub repositories by utilizing GitHub REST API
- Implemented Plotly, a data visualization library, to plot graphs on cleaned and filtered assignment dataset
- Enabled Computer Science department to analyze data from department-level executable exams in future semesters

---

PROJECTS

TreeNose: Language-Independent Code Smell Detector   **September 2023 - April 2024**
- A JavaScript AST-based code smell detector that checks 5 kinds of code smells in 4 programming languages
- Parse software projects into language-independent code structures and queries to check the existence of code smells
- Support plug-in of new languages like Rust and Ruby with JSON configuration files to make TreeNose extensive

News Analyser   **May 2022**
- A Python tool that extracts keywords and hot topics from newspaper media associated with specific desired tokens
- Leveraged Beautiful Soup to perform a web scraper feature to fetch news from media like CNN through HTTP protocol
- Programmed a Machine Learning classifier using the Tf-idf vectorizer to analyze and summarize numerous articles

Gatorgrade   **January 2022 - April 2022**
- Developed, tested, troubleshot, and maintained Python automatic grading tool in collaboration with 20 peers along with Agile development methodology and joined group activities like sprint refinement meetings and code review
- Added a module for converting plain text messages into Markdown format to support the GitHub Action Summary
- Deployed and widely utilized across all the courses in the CS department at Allegheny College

---

LEADERSHIP

Allegheny Chess Club President   **September 2023 - May 2024**
- Managed an organizational club of 30 students and 3 board members, approving events and assigning responsibilities
- Collaborated with board members to provide campus-wide events that generate 20+ students in attendance
- Worked with the student government to revise club constitution and plan the budget to support club activities

Technical Leader   **September 2022 - December 2023**
- Assisted 10-15 students weekly in completing class activities and assignments
- Held office hours to assist students' academic progress in introductory and intermediate computer science courses

Allegheny Gatorverse Hackathon Mentor   **April 2024**
- Advised 2 groups of undergraduate participants in designing architectures, software implementation and deployment
- Assisted judges to understand the key features of projects from each groups and provide assessments

---

SKILLS

Programming Languages: Python, Java, SQL, C, Bash, Go
Tools: Docker, Git, RESTful API, Node.js, AWS, Snowflake, Tableau
Certifications: AWS Cloud Practitioner