Yuxuan Mei

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Education

University of Washington, School of Computer Science & Engineering   Expected 2024
Ph.D. in Computer Science, Allen School CSE Research Fellowship ('19)

Columbia University, School of Engineering and Applied Sciences   May 2019
Bachelor of Science in Computer Science, *summa cum laude*   GPA: 4.07/4.33
Honors: Dean's List ('15-'18), Russell C. Mills Award ('19)

Work Experience

Software Engineering Intern   May 18 - Aug 18
DoubleClick for Publishers team at Google, New York, NY
- Designed and implemented a FlumeJava pipeline to process front end activity logs to generate an activity graph
- Refactored an internal tool and incorporated the activity sequence visualization into the tool
- Reviewed internal use cases with UX, PM, and other SWE teams to improve the pipeline, documented the general usage, and familiarized other teams with example use cases

Engineering Practicum Intern   May 17 - Aug 17
Keyword Planner team at Google, Los Angeles, CA
- Created an overview page in the app Keyword Planner that displays forecast data using Angular Dart and Sass
- Created a data service on the front end server to serve data for the overview cards using Java
- Implemented a backend API to support location-based forecast data for the data service using Java
- Collaborated with another Google team to coordinate sharing components and styles with our project

Research and Teaching Experience

Undergraduate Researcher   Sep 18 - May 19
with Prof. Changxi Zheng, Columbia University, New York, NY
- Researched on noise removal and learning-based audio processing literature and summarized existing methods
- Scraped and analyzed audio datasets, and trained and evaluated neural networks with custom training data using PyTorch
- Currently exploring ideas in fabrication and design

Teaching Assistant at Columbia University, New York, NY   Sep 16 - May 19
(Intro to CS in Java, F16 to S18, Head TA in F18, S19; Computer Graphics, S18, S19; Computer Animation, F18)
- Coordinate and support course staff to make the course experience better for students
- Answer questions and help with debugging during weekly office hours and through online platforms
- Grade homework with detailed feedback, lead recitations, and improve homework starter code and documentation

Undergraduate Researcher   Sep 17 - Dec 17
with Prof. Steven Feiner, Columbia University CGUI Lab, New York, NY
- Worked with VR researchers to create visualizations of foliage using Unity packages with custom C# scripts

Undergraduate Researcher   Sep 16 - Jan 17
with Prof. Douglas Almond, Columbia University Economics Department, New York, NY
- Crawled pollution monitoring data from static and dynamic web pages using Python with Redis for crawler job scheduling
- Cleaned the data to CSV files and SQLite databases for further statistical analysis

Leadership and Extracurricular Experience

Corporate Chair at Columbia Womxn in Computer Science, New York, NY   Apr 16 - May 19
- Connect with corporate sponsors to plan and fund events and scholarships to help build the WiCS community on campus

Illustrator at Columbia Science Review, New York, NY   Sep 15 - Mar 18
- Illustrated for club publications to promote science; topics include quantum computing and cryptography

Skills and Interests

Languages	Chinese (native speaker) ⋆ English (fluent) ⋆ Japanese (intermediate) ⋆ Korean (beginner)
Programming/Tech	Python ⋆ Java ⋆ C/C++/C# ⋆ Dart ⋆ HTML/CSS/Javascript ⋆ MATLAB ⋆ SQL
	PostgreSQL ⋆ sqlite3 ⋆ git ⋆ LaTeX ⋆ Unity ⋆ OpenGL ⋆ FlumeJava ⋆ PyTorch
Other Interests	singing ⋆ walking ⋆ drawing ⋆ cooking