

Yume Choi

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I am a Technical Consultant contracted as a client-facing Software Engineer. I am seeking to translate these skills into a full-stack developer role. I carry a unique combination of technical skills and client-facing Agile skills to be an integral unit to any team.

EDUCATION

Duke University

August 2018 - May 2022

Neuroscience (BS), Computer Science (Minor), Psychology (Minor)

GPA: 3.96/4.0

- Phi Beta Kappa, Dean's List with Distinction: Fall 2018, Spring 2019, Fall 2020, Spring 2021

Georgia Tech

Computer Science (MS) - Online, Part-Time

Expected May 2026

WORK EXPERIENCE

Appian Corporation

McLean, VA

Technical Consultant: Client-facing Software Engineer

August 2022 – Present

- Designing the database architecture and user interface for a web application for all major national banks to regulate \$5.2 trillion of credits and ultimately reduce regulatory burden, reduce people touch and automate 1000+ hours of manual work, improve data collection, and provide a flexible examination platform that reaches 11,000+ institutions.
- Developing an XML processor from scratch using Java, MariaDB SQL, Stored Procedures, and XSLT to parse XML files submitted by financial institutions into a relational database to decrease processing time by 40% for 20,000+ rows of data per submission
- Leading technical peer reviews, unit/load/regression-testing, and platform-level deployments, resulting in a 60% increase in software quality and client satisfaction.
- Engineering 3 new Appian plug-in functions utilizing Java, JavaScript, and Gradle to extend Appian platform functionality, all deployed to the Appian Market
- Demonstrating expertise in project management and Agile methodology by translating business objectives and goals into 2500+ actionable Jira tickets and steering ongoing strategic discussions with Product Owners
- Leading Agile sprint ceremonies in bi-weekly sprint demos, sprint planning, story pointing, and sprint refinement meetings with clients and regularly conducting technical peer reviews, unit/load/regression-testing, and platform-level deployments to increase client satisfaction and extend business contracts by \$2 million and 1.5 years.

Duke University School of Medicine

Durham, NC

Clinical Researcher

September 2019 – August 2022

- Launched analysis and created data visualizations for research on clinical disorders involving over 500 patients to produce significant results and extend knowledge in learning and trait anxiety.

Duke Department of Computer Science

Durham, NC

Undergraduate Teaching Assistant

August 2021 – May 2022

- Instructed 200+ students in the course Everything Data: Python's NumPy, Pandas, SQL, and Machine Learning
- Guided 100+ students in the course Computer Systems: taught fundamentals of C, and computer hardware, as well as reverse engineering in x86.

SKILLS AND INTERESTS

Programming Languages: Bash, C, CSS, HTML, Java, JavaScript, MATLAB, MySQL, Python, R

Frameworks/Databases: Bootstrap, JQuery, NodeJS, ExpressJS, ReactJS, Relational Databases (MariaDB)

Other: Agile Software Development/Project Management, JIRA, RESTful APIs

Non-Technical: Korean (Native), Spanish (Conversational), Violin: Carnegie Hall Performance and All-State Orchestra

PROJECT EXPERIENCE

Teaching UX (TUX)

Appian

- Implemented a web application through Appian, API Integrations, and MySQL to allow 2000+ Appian developers to conduct systematic design reviews, retrieve 50+ design patterns, and read UX/UI documentation.

DrinkLink

Duke University

- Engineered and designed an iOS app to connect with friends and share reviews via Swift, REST APIs, and Figma

Pre-Learning Contextual States and Trait Anxiety Impact Learning From Error

Duke University

- Conducted research on 150+ participants and implemented Linear Mixed-Effects Models and Tukey's HSD tests through R to determine the behaviors of trait anxiety that impair learning. Completed as a senior thesis.