

Katherine Shen

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+1 (443) 766-2382 – U.S. Citizen

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor's of Science in Computer Science, GPA: 3.62

Aug 2020 – May 2024

Concentration: Graphics & Networking

Courses: *Information Security, Information Visualization, Systems and Networks, Databases, Algorithm Design, Computer Graphics, Computer Architecture, Linear Algebra, Data Structures & Algorithms*

EXPERIENCE

Amazon Web Services

San Francisco, CA

Software Development Intern - OpenSearch Ingestion

May 2023 – Aug 2023

- Deployed advanced key value processor to production environments for use in AWS OpenSearch
- Improved data ingestion tool's capabilities to transform data by increasing data processing functionality
- Enhanced customer ability to collect observability data by expanding configurations for the key-value processor
- Implemented user options in Java to select key-value pairs, mutate values, and recursively parse input data

Vertically Integrated Projects

Atlanta, GA

Getting to Know U - Provost Data Dashboard Design

Aug 2022 – Present

- Led subteam for large scale project to provide student body with information on classes, majors, clubs, etc.
- Managed and conducted code reviews for 8 engineers transitioning design wireframes to a user-friendly webapp
- Standardized design systems after rigorous UX audit of existing dashboard designs for future dataset visualization

Georgia Tech Research Institute

Atlanta, GA

Research Software Engineering Intern

May 2022 – May 2023

- Spearheaded development of AI model visualization tool using React, Python, and custom data architecture
- Transitioned emergency procedure manual iPad application to React webpage with improved user experience
- Developed Python script to parse styling information from Excel sheet database in order to render on webpage

Johns Hopkins University Applied Physics Lab

Laurel, MD

Software Engineering Intern

Jun 2018 – Jun 2020

- Reduced average time for locating parking spot on APL campus with OpenCV and image recognition
- Experimented with relationships between emotional context and television subtitles using NLP techniques
- Developed lost device tracking system with Raspberry Pi by building Pseudo-GPS system with WiFi networks

EXTRACURRICULARS

GT Esports

Atlanta, GA

Advisor, Vice President, Creative Department Head

Sep 2020 – May 2023

- Boosted member engagement by leading initiatives to increase organization activity and school presence
- Led creative team to create a website, social media graphics, and game-specific designs
- Managed budget and allocated funds for competitive teams, various events, and organization costs

GT Symphony Orchestra

Atlanta, GA

Clarinetist, Bass Clarinetist

Aug 2021 – May 2022

- Participated in weekly rehearsals and sectionals as one of two clarinetists in the highest level orchestra ensemble
- Collaborated with the conductor and fellow musicians to perform two to three concerts per semester

SKILLS SUMMARY

Programming: Python, Java, JavaScript, TypeScript, OpenGL, HTML/CSS, SQL, C, LaTeX, Assembly

Tools: Figma, Notion, Trello, Git, Adobe Photoshop, Tableau

Technologies: React, D3.js, Websockets, API, Event Handling, Flask

Languages: English (native), Chinese (fluent), Korean (beginner)