

Rachel Mills

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Education

Georgia Institute of Technology: B.S. Computer Science 2018 - 2023 - *Magna Cum Laude*

Threads: Artificial Intelligence and Media

Relevant Course Work: Design & Analysis of Algorithms, Computer Graphics, Computer Organization & Programming, Intro to AI, NLP, Game AI, Automata and Complexity

Clubs: WREK Radio, Trail Blazers (President 2020 - 2021), iOS Development Club

Experience

Freelance Programmer May 2023 - Present

Working with private clients offering IT, maintenance, and development for websites, apps, and other technologies, as well as developing personal projects intended to be deployed next year. Also pursued seasonal work in southeast Alaska.

Apple, Software Engineer Intern - Cupertino, CA May 2022 - August 2022

Created feature for Apple Music and MusicKit. Swift, Objective-C

Apple, Software Engineer Intern - Cupertino, CA May 2021 - August 2021

Created feature for Apple Music. Objective-C - sorting and searching in playlists. (Deployed)

Georgia Institute of Technology, IT Intern - Atlanta, GA Jan 2021 - December 2021

Maintenance, configuration, and security of employee hardware and software at the Alumni Association.

SKILLS

Programming: Java, Python, C, C#, Assembly, Processing, Swift, SwiftUI, Objective-C, Typescript, JavaScript, Rest API, SQLite, React, HTML, CSS, et al.

Concepts: Linear Algebra, Multivariable Calculus, OOP, UML, Data Structures, Discrete Mathematics, Full-Stack Development, Graphics Programming, et al.

Languages: French (Intermediate), Mandarin (Beginner)

PROJECTS

Natural Language Processing POS Tagger Oct 2022

Pytorch - Colab notebook using LSTM model trained using text from the Wall Street Journal, using word-level and character-level representations of the word for more accurate predictions.

Dual Meshes May 2022

Processing - Create triangulated duals using 5 polyhedral models, toggle between per face and per surface normals, toggle between white and colorful faces

It Takes a Village August 2021 - December 2021

ReactJS with Java backend application, mySQL database, and Rest API - Project for client Dr. Mine Hashas-Degertekin with group of 5. Communication platform to provide childcare for single parents in West End Atlanta neighborhood

Julia Fractal GPU Programming May 2022

GLSL - Write fragment and vertex shaders to depict cubic Julia Set fractal that changes as time progresses, edge detection shader on an image, spiral of circles, and ripple

<https://rachel390.github.io>

<https://www.linkedin.com/in/rachel-mills-861b34170/>