

Rachel Mills

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Education

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

Threads: Artificial Intelligence and Media

Relevant Course Work: Design & Analysis of Algorithms, Computer Graphics, Computer Organization & Programming, Intro to AI, Natural Language Processing, Game AI, Automata and Complexity, etc.

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#, C++, PostgreSQL, Ruby, Angular, Kotlin, .NET, Swift, JUnit, Objective-C, Typescript, JavaScript, Rest API, GraphQL, SQL, HTML, CSS, React.js, Node.js, Shopify, WordPress, Tailwind, Windows, Azure, AWS, etc.

Concepts: Agile methodologies, Problem-solving, Linear Algebra, Multivariable Calculus, Object-Oriented Programming, UML, Data Structures, Discrete Mathematics, Front-End, Back-End, Full-Stack, Web Development, UI/UX, Graphics Programming, video game design, Android and iOS development, game AI, A/B Testing, et al.

Languages: French (Intermediate), Mandarin (Beginner)

PROJECTS

Tech Neck Pro Mobile App Jan - May 2025

Swift, SwiftUI, UIKit, Firebase - Solo developer for iOS app for Carson Patents and Bird Tangible Solutions - designed to teach better neck posture through points, power ups, and unlockable collectibles. Subscription service available as well as Google ads implemented. Currently listed on App Store.

SAT Math Prep Mobile App May 2024 - Present

Kotlin, Java In-progress cross platform App providing concept lessons, practice questions, and mock exams for the SAT math section. The app closely follows test requirements and is inspired and informed by my time as an SAT tutor to help students achieve higher scores and increase confidence for the SAT math section

Natural Language Processing POS Tagger Mar 2023

Pytorch and Python - 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 and TypeScript - 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 UI with Java backend, MySQL database, using Restful APIs - Project for client Dr. Mine Hashas-Degertekin with group of 5. Communication platform to provide childcare and aid for single parents in Atlanta