

BILL MERICKEL | iOS Software Engineer

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing

Atlanta, Georgia

Bachelor of Science in Computer Science (Intelligence and Systems Architecture)

May 2024

GPA: 3.95/4.00

- **Distinctions:** Faculty Honors, Dean's List
- **Course Highlights:** Computer Vision, Operating System Design, Machine Learning, Algorithm Design and Analysis
- **Semester Abroad:** Studied startup ideation, customer discovery, and business value propositions in Metz, France

EXPERIENCE

AT&T INC.

Atlanta, Georgia

Software Engineer (iOS), Lead Technical Interviewer

July 2024 – Present

- Contributed to Atlas, an iOS app used by 11,000+ technicians nationwide to install, troubleshoot, and repair broadband services
- Led developments of Annual Recap, a feature summarizing technicians' yearly accomplishments and sharing with managers
- Developed Featured Technicians, a feature highlighting local technicians for their performance and customer satisfaction results
- Converted 20+ Figma mockups into updated SwiftUI views in accordance with Apple's Human Interface Guidelines
- Migrated view models to the Observation framework to optimize view rendering/performance based on observer design pattern
- Enhanced accessibility by integrating Dynamic Type, Increased Contrast, and other features to improve UI inclusivity
- Implemented pre-existing damage claim entry at job closure, eliminating duplicate claims and reducing administrative overhead
- Optimized hardware diagnostics and troubleshooting times by enabling concurrent execution of multiple standalone tests
- Conducted 1-3 engineering interviews weekly, assessing candidates on data structures, algorithms, and object-oriented design

Software Engineering Intern

June 2023 – August 2023

- Developed 8 API endpoints for ORCA backend infrastructure that connect with SQL server and return appropriate objects
- Enhanced ORCA regional backend codebase by implementing unit tests for a 14% increase in total test coverage
- Received honorary placement in hackathon with AI-focused customer service training app and presented to CTO and Senior VPs

NCR CORPORATION

Atlanta, Georgia

Software Engineering Intern

May 2022 – August 2022

- Crafted 34 Python scripts to automate the process of removing terminated employees as users from the enterprise tools set
- Boosted user removal processing time by 97.25% by eliminating 48 hours of manual labor through pipeline automation
- Nominated for the NCR Software & Technology R&D Excellence Award due to project's processing efficiency

PROJECTS

TILEVANIA | 2D Platformer Game

- Designed 10 levels with Unity and C# that include multiple collectibles and hazards, like a retro 2D side-scrolling experience
- Animated 6 various gameplay elements, such as player running and idle stance, hovering coins, and enemy movement
- Incorporated state management for the preservation of player data, such as lives and score, if the player is defeated

SPOTIFY UNWRAPPED | React Web App

- Built personalized data dashboard using Spotify API with 4 profile-specific features, such as top artists and playlists
- Added feature allowing users to sort tracks in their public playlists by 3 different measures: danceability, tempo, and energy
- Utilized the Spotify OAuth framework to securely enable user login and protection of user data through appropriate permissions

IMMEDIATE ALERT MESSAGING | Flutter Mobile App

- Developed 2 primary screens for sending messages and images to all organization members and to individual or group chats
- Established 3 Firebase app services; integrated 18 package dependencies for user authentication, message database, cloud storage
- Implemented direct push notifications containing chat name, sender, and message content upon receiving messages offline

XV6 OPERATING SYSTEM ENHANCEMENTS | Kernel Feature Development in C

- Achieved 4 kernel feature enhancements, including virtual memory performance improvements and a stack backtrace method
- Refined the kernel thread process scheduler by adding 4 different algorithms, including FIFO and Priority Round Robin
- Augmented security of user data by implementing user authentication with a modified hash salt and aes256-encryption

SKILLS & INTERESTS

iOS Skills: Swift, SwiftUI, SwiftData, CoreData, Observable, ARKit, MapKit, TipKit, UIKit, Human Interface Guidelines

Languages: Python, Java, C, JavaScript, Dart, C#, SQL, Apache Groovy

Tools: Figma, Flutter, Firebase, Unity, React, Node.js, Express, Git, Render, Gatsby, APIs

Hobbies: Golf, Scuba, Skiing, Hiking, Legos