BILL MERICKEL

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing   **Atlanta, Georgia**
Candidate for Bachelor of Science in Computer Science   *May 2024*
- Concentrations: Intelligence and Systems Architecture   GPA: 3.97/4.00
- Distinctions: Faculty Honors, Dean's List
- Relevant Coursework: Operating System Design, Machine Learning, Algorithm Design and Analysis, Processor Design
- Study Abroad: Studied startup ideation, customer discovery, and business value propositions in Metz, France for 4 months

EXPERIENCE

AT&T INC.   **Atlanta, Georgia**
Software Engineering Intern   *June 2023 – Present*
- Ideated and implemented a scheduling algorithm for the ORCA construction task scheduling software to determine effective time worked
- Developing an AI-integrated mobile app with Flutter designed to streamline and improve the process of retail customer service training
- Creating new API endpoints for the ORCA regional backend infrastructure connecting to the system SQL database

NCR CORPORATION   **Atlanta, Georgia**
Software Engineering Intern   *May 2022 – August 2022*
- Created 34 Python scripts to automate the process of removing terminated employees as users from the enterprise tools set
- Improved 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

BUSINESS PARTNER SOLUTIONS INC.   **Riverside, California**
Software Engineering/Sales and Marketing Intern   *June 2021 – August 2021*
- Outlined a $600+ per year savings plan with Kubernetes and NeuVector container security platform adaptation
- Composed a 15-page documentation detailing security benefits of application containers compared to virtual machines
- Integrated 20 containerization and CI/CD technical documents to illustrate an improved software development life cycle

PROJECTS

SPOTIFY UNWRAPPED   **Atlanta, Georgia**
React Web App   *July 2023 – Present*
- Implemented a dynamic user interface to visualize spending trends by various categories chosen by the user and individual purchases
- Integrated the Notion API to connect the mobile app with Notion's web and desktop interfaces for convenient item purchase entry
- Practiced strong developer principles by separating various models and UI widgets for reusability and extensibility purposes

TILEVANIA   **Atlanta, Georgia**
2D Platformer Game   *April 2023 – Present*
- Developing 20 levels with multiple enemies and hazards to emulate a challenging and retro 2D side-scrolling experience
- Created multiple animation states and transitions for the player and enemies to add elements of interaction and liveliness to the game
- Implementing various power-ups that will give the player unique abilities to help complete the level or defeat various bosses

XV6 OPERATING SYSTEM ENHANCEMENTS   **Atlanta, Georgia**
Kernel Feature Development   *September 2022 – December 2022*
- Optimized virtual memory system by implementing copy-on-write forking and lazy zero-page allocation within the kernel
- Constructed a process scheduling API with 4 different algorithms and built a kernel-space threading library
- Enhanced the isolation and security of user data by creating a user authentication and file permission system inside the kernel

IMMEDIALERT   **Riverside, California**
Flutter Mobile App   *April 2020 – October 2020*
- Built an app designed to streamline the process of emergency communication within schools through instant group messaging services
- Integrated Firebase user authentication, database, and cloud storage to protect proprietary school group messages and images sent
- Utilized the array of Flutter packages available to integrate direct push notifications upon receiving new messages from any forum

LEADERSHIP

ALPHA KAPPA PSI PROFESSIONAL CO-ED BUSINESS FRATERNITY   **Atlanta, Georgia**
Vice President of Finance   *May 2022 – May 2023*
- Managed, budgeted, and processed over $60K worth of financial assets and a $28K operating budget
- Led directors to research effective investing strategies and contribute to an equity portfolio valued over $15K

SKILLS & INTERESTS

Languages: Dart, C, Java, Python, C#, JavaScript, Apache Groovy
Frameworks: Flutter, Firebase, Unity, React Native, Git, JavaFX, Pandas, NumPy, Matplotlib, Scipy
Interests: Technology, Investing, Cinema, Cryptocurrency, Skiing, Hiking, Scuba Diving