

Justin Butler

<https://github.com/JustinButler700>

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EXPERIENCE

- **Amazon** Irvine, CA
• **Software Engineer** *August 2023 - Present*
 - Optimized Echo device memory utilization by transitioning IPC libraries.
 - Resolved Echo device display rendering bugs in C++ by analyzing logs and intuitively fixing misbehaving functions, enhancing user interface experience.
 - Built integration testing bots using Python to ensure code convention and quality standards.
- **Wicis Health** San Marcos, CA
• **Freelance Software Engineer** *March 2023 - October 2023*
 - Created and maintained relational databases, with AWS RDS, and webhooks with AWS Lambda to ensure scalable management of data.
 - Engineered a live email notification system to monitor vital data from telehealth devices, employing AWS SES for swift alerts to patients' physicians upon detection of abnormal readings.
- **Amazon** Irvine, CA
• **Software Engineer Intern** *May 2022 - Aug 2022*
 - Achieved a 100x reduction in Bluetooth latency on Alexa Gadgets by creating an Android backend service using Java, reducing latency from 600ms to a TP90 of less than 5ms.
 - Developed latency profiling Alexa skills using Node.js and APL which ensured accurate RTT calculations.
- **Freelance** Murrieta, CA
• **Data Structures & Assembly Language Tutor** *September 2020 - September 2021*
 - Guided students in mastering data structures and algorithms by providing personalized coaching, resulting in a more comprehensive understanding of the material.

PROJECTS

- **Point of Sales System** : Developed a point-of-sale system using Typescript, GraphQL, and Electron.js. The system seamlessly integrates inventory management, accounts payable, and checkout into a user-friendly application.
- **Twitter Meme Bot** : Developed and launched a Twitter meme bot using Java, Twitter4J, and the Twitter developer API. The bot was created as a fun personal project.
- **Alexa APL Extension** : Created the "Gadgets extension" for Amazon Echo devices that utilizes async Protobuf packet transmission and reception to reduce Bluetooth latency significantly.
- **Zillow Clone** : Built a React based, proof of concept Zillow clone project to be presented to JP Morgan Chase. (Hosted on an AWS EC2)

PROGRAMMING SKILLS

- **Languages:** C++, Java, Python, Javascript, C, C#, SQL, GraphQL, BASH, PHP, Kotlin, x86, ARM, Ruby, Typescript
- **Technologies / Frameworks:** AWS, GCP, Django, Docker, React, Gradle, Angular, Electron, Jira, Maven, Linux, Git, MongoDB, GoogleTest

EDUCATION

- **California State University San Marcos** San Marcos, CA
• **Bachelors of Science in Computer Science; GPA: 3.80** *Aug. 2018 - Dec. 2022*