AZIA BAY-ASEN

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Education

University of Texas at Dallas   Richardson, TX
B.S. in Computer Science   Expected May 2025
- **Relevant Coursework:** Computer Architecture (MIPS Assembly); Computer Science I (C, C++), II (Java)
- **Activities & Societies:** National Merit Scholars Program, Hobson Wildenthal Honors College, Association for Computing Machinery (ACM)

Skills

Languages: C, C++, C#, Dart, Java, JavaScript, XAML, HTML, CSS
Tools/Frameworks: Flutter, Xamarin, Firebase (Firebase Authentication, Firestore, Cloud Storage), Azure DevOps, Git

Work Experience

Maxus33, Mobile Software Engineer Intern   Omaha, NE (Remote)
C#, XAML, Xamarin, Azure DevOps, Git   September 2022 — Current
- Built a full-stack, cross-platform, multilingual mobile app alongside a team of 6 other interns.
- Deployed Google's Speech Recognition API to continuously transcribe recorded speech as fast as 10 words/sec. & retrieve related results from a curated database of pictures & animations.
- Multiplied the storage space allocated toward animation files by 10, allowing the storage of over 250,000 local animations from a previous 25,000, through the research & employment of file compression techniques.
- Generated issue reports with a combined total of 100+ points after testing software products for Android/iOS.
- Demonstrated individual & team progress using Scrum/Agile development methodologies in daily stand-ups with senior developers.

Projects

AnxietyAlign, Winner of ACM Projects
Dart, Flutter, Firebase, Git
- Created a full-stack, cross-platform mobile app with a team of 3 other students.
- Implemented a custom audio waveform visualizer from scratch to match design constraints, converting decibels from recorded speech in real-time & graphing them at a rate of 20 bars/sec.
- Presented an 8-min. live tech demo (bit.ly/3B9dHo4 @ 1:05:22) to a panel of industry professionals.
- Elected 1st place in ACM Projects, one of the largest hackathons hosted by UT Dallas.

MIPS-Tac-Toe, Team Lead
MIPS Assembly, Git
- Assembled a desktop app with basic artificial intelligence alongside a team of 2 other students.
- Led peers by encouraging the use of modern software development practices, determining & assigning tasks, keeping progress on schedule, & helping unblock/debug 5 separate issues.

Portfolio Website
HTML, CSS, JavaScript, Git
- Engineered a web app (aziabay.com) leveraging user interaction & responsive design.

Awards

University of Texas at Dallas, National Merit Scholarship & Academic Excellence Scholarship
- Selected for a full-tuition merit scholarship with a $5.5k stipend after scoring in the top 0.125% of graduating seniors nationwide.