DAKSHIN DEVANAND

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EDUCATION

The University of Texas at Austin   **May 2026**
Bachelor of Science, Computer Science   GPA: 4.0
- **Relevant Coursework:** Computer Architecture, Data Structures & Algorithms, Discrete Math, Linear Algebra, Statistics

TECHNICAL SKILLS

Languages: C++, Java, Python, Javascript/Typescript, Swift UIKit/SwiftUI, HTML/CSS
Back End: Node.js, Firebase, SQL, Metal, Flask, AWS, Snowflake, Redux
Developer Tools: Git, Docker, Linux, React, npm, Xcode, CocoaPods, SPM, Vim, SQL Server Management Studio

EXPERIENCE

Sandia National Laboratories – *Incoming Research & Development Intern*   **Jun 2024 – Aug 2024**
- Utilizing data analytics to create software for government agencies to monitor criminal activity.
- Assessing quality of binary decompilations by identifying novel metrics and researching machine and deep learning analytics to improve performance.

Freight Handlers Inc. – *Software Engineer Intern*   **Jun 2023 – April 2024**
- Developed SQL scripts for Snowflake ETL process, reducing memory usage from legacy scripts by **38%**.
- Utilized D3.js and HTML/CSS to create an internal web app displaying live visualizations of warehouse activity through SQL Server integration, along with Flask for web routing, security, and responsive, real-time updates.
- Assisted in rewriting legacy C# programs to Python, involving integration with SQL Server and Workday APIs.
- Created a SARIMAX model for time-series data forecasting using TensorFlow to predict future client trends, implementing grid search to tune hyperparameters.

Convergent Forge – *Software Engineer/Technical Member*   **Sep 2023 – May 2024**
- Developed Qwell's mobile application, a foundation promoting inclusive businesses within Austin's LGBTQ+ community.
- Built Suits, an app aimed at concentrating class-action lawsuits to provide increased visibility for users to claim compensation, as well as identifying product recalls that may affect consumers.
- Utilized Python, React Native, and Supabase alongside collaboration with Design and Business teams to meet deliverables and present to clients.

PROJECTS

AI Food Recommender Website
- Developed a full stack web application using NextJS and Flask that displays a restaurant's highest rated foods.
- Created a LSTM ML Model from scratch using Python and Tensorflow with GlovE word vectorization for sentiment analysis, achieving an **94.8% accuracy**.
- Trained a spaCy NER NLP Model to recognize multi-word food entities in reviews using a hand-created dataset.
- Utilized Python and Selenium to achieve scraping of over **1000+** reviews per restaurant from Google Maps.

Comic Aggregation Website
- Leveraged React to create a full-stack web app, utilizing Selenium to scrape 5000+ comics from **10+** different sites.
- Employed Docker to containerize Python scripts and dependencies in AWS Elastic Container Registry, allowing for Lambda function deployment scheduled by CloudWatch events, leading to **12x** faster update speeds.
- Utilized AWS DynamoDB and creation, routing, and integration of an HTTP API gateway to facilitate communication with front-end. Optimized and cached data to reduce call times by **72%**.

IntakeWatch - iOS App
- Developed iOS app in Swift targeting people with auto-immune and allergic conditions, obtaining **1000+** users.
- Leveraged CoreData and Metal frameworks using OCR to parse and scan food ingredient labels, with integration of USDA APIs to facilitate barcode scanning for allergen detection.
- Created algorithmic analysis of user's eating habits, displayed in user-friendly UI, facilitating better communication with medical professionals, while also following MVC/MVVM architectures.