

GAURI PALA

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EDUCATION

University of Texas at Austin, Austin, Texas December 2025
Bachelor of Science in Computer Science, Minor in Business, Certificate in Applied Statistical Modeling | Cumulative GPA: 3.99 / 4.0 | University Honors
Relevant Coursework: Principles of Machine Learning, Algorithms, Operating Systems, Computer Organization and Architecture, Data Structures, Discrete Mathematics, Linear Algebra, Probability, Applied Statistics, Multivariable Calculus, Accounting, Info Tech Management, Business Law

SKILLS

Languages & Frameworks: Java, C, Python, Swift, Spring Boot, JavaScript, TypeScript
Full-Stack Development: Flask, Angular, React, React Native, MongoDB, DynamoDB, REST APIs, HTML, CSS, Bootstrap, Supabase, Postman
Other: Lambda, Docker, AWS, S3, Git, CI/CD Pipelines, scikit-learn, NumPy, Pandas, Matplotlib, AI/ML, Linux, Agile, Figma, Xcode, Microsoft Office

EXPERIENCE

Capital One | Software Engineer Intern, McLean, Virginia June 2024 - August 2024

- Developed a Mentor-Mentee matching platform for mentorship programs, designed an optimized and automated matching algorithm to generate accurate pairs, reducing matching time by 95%, and deployed via AWS Lambda, leveraging the AWS Serverless Application Model.
- Architected and integrated 2 DynamoDB tables for storing matching preferences and results and an S3 bucket for managing corresponding CSV files from Google Form responses. Created a user-friendly React UI, utilizing internal libraries for seamless and consistent integration.

UT Austin Department of Computer Science | Discrete Mathematics Teaching Assistant, Austin, Texas August 2023 - Present

- Lead weekly discussion sections for 30 students, involving reviewing course material, proctoring quizzes, and answering content questions.
- Conduct office hours 2 times a week and monitor Ed discussion board to ensure student comprehension and success in the course.

UT Austin Women in Computer Science | Academic Director, Austin, Texas May 2023 - Present

- Lead academic related endeavors for Women in Computer Science, a UTCS diversity organization with 300+ members that promotes DEI.
- Organize registration review every semester, facilitate faculty lunches for students and staff, and oversee the Graduate Mentorship Program.

Texas Convergent, Austin, Texas June 2024 - Present
Marketing Chair

- Customized a new marketing campaign strategy for recruitment using Photoshop, InDesign, and Illustrator to create 3+ posts and stories per week which increased applications by 64%.
- Analyzed content through various data collection methods such as surveys and anonymous feedback forms to increase user engagement on social channels by over 90%.

Lead Software Engineer for Suits January 2024 - May 2024

- Led a team of 16 members, including tech, product, and design, for the full-stack development of a mobile application for startup Suits, an app aimed at compiling class-action lawsuits to provide increased visibility for users to claim compensation.

Software Engineer for Qwell Austin January 2023 - January 2024

- Developed a mobile application for Austin nonprofit, QWELL, to connect 8,000 LGBTQ+ QWELL members with each other and with 110+ friendly businesses, physical, mental, and sexual health services in the Greater Austin area.

Software Engineer for Austin Free-Net September 2022 - January 2023

- Developed a mobile application for nonprofit, Austin Free-Net, to help promote digital literacy to underprivileged people in Austin by displaying 4 main programs, 10+ resources, upcoming events, and nonprofit's news.

State Farm Insurance, Dallas, Texas May 2023 - August 2023
Software Engineer Intern

- Launched a full-stack application to visualize 500k+ log events for daily production metrics data through the use of bar charts, maps, and tables under 6 key factors for the Fire Acquisition API.
- Developed a Flask API to automate running of queries in Flask using the Splunk REST API and store daily metrics in a MongoDB database for use by the Angular UI, reducing the need to manually pull data and cut down production support time by 50%.
- Automated the process to gather agent test ID's and passwords for the Fire Acquisition API testing suite, eliminating the need to rotate stored passwords 2 times a month.

Software Engineer Intern June 2022 - August 2022

- Enhanced the Billing Transactions History UI by adding the ability to retrieve and view the transaction expiry date used by 19,000+ State Farm Billing ops and agents for SF billing accounts.
- Revamped the look and feel of the Billing Transaction History UI to ensure consistency and cohesiveness throughout all State Farm applications, increasing the user satisfaction by 30%.

Software Engineer Intern June 2021 - August 2021

- Refactored and developed an utility REST API with 18 endpoints to follow the API design pattern, Adapter Pattern, allowing for the connection between two incompatible interfaces.
- Increased code coverage of the API to 100% through JUnit testing, PIT Mutation testing, and E2E testing

PROJECTS

Credit Score Classifier | Python, Machine Learning, NumPy, Pandas, Matplotlib, scikit-learn April 2024

- Performed extensive data cleaning, feature engineering, and exploratory data analysis on a financial dataset to prepare for modeling
- Developed supervised and unsupervised models achieving over 72% accuracy, including Decision Trees, K-Nearest Neighbors (KNN), Neural Networks, Random Forest, K-Means, and DBScan. Improved model robustness through hyperparameter tuning and cross-validation.

AWS Mask Detection System | AWS Rekognition, Lambda, S3, Cloud Watch, IoT Core, DeepLens, Python May 2022

- AI-based system using the AWS DeepLens camera that utilizes a Computer Vision model to recognize if a person is wearing a mask or not and displays results on an AWS Cloud Watch dashboard.

iRecycle | CoreML, Swift, Git, Objective C, UI/UX Design, Figma July 2021

- AI-based iOS Application which utilizes a Computer Vision CoreML model to predict if an item is recyclable, organic waste, or trash

HONORS AND AWARDS

Frisco Liberty High School's Class of 2022 Salutatorian May 2022

- Ranked 2nd highest in my graduating class of 545 students

NCWIT Aspirations in Computing: National Honorable Mention & Regional Affiliate Winner April 2021

- Awarded on my aptitude and aspirations in technology and computing, as demonstrated by my computing experience and activities