

Ashley Zhang

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EDUCATION

Texas A&M University

B.S. Computer Science, Minor Statistics — GPA: 4.00

Craig and Galen Brown Engineering Honors, President's Endowed Scholar, National Merit Scholar

College Station, TX

May 2026

EXPERIENCE

Associate Software Engineer

FinThrive

Aug 2023 – present

Plano, TX

- Developed user interface and **REST API** features using **ASP.NET Core C#** and **Angular TypeScript**
- Automated installation and configuration of Microsoft on-premises data gateways using PowerShell cmdlets
- Registered **Azure** Active Directory application as service principal to authenticate gateway connection
- Upgraded deprecated packages across **15+ repositories** in compliance with Checkmarx One

Data Analytics & App Development Intern

FinThrive

Jun 2023 – Aug 2023

Plano, TX

- Visualized performance metrics across four core services, reducing manual diagnostic times by **70%**
- Composed SQL queries in **Microsoft SQL Server** to fetch data from validation and production databases
- Configured gateways to establish secure connection between database and cloud based reporting infrastructure

Web Officer

Engineering Teaching Assistant Organization (TAO)

Feb 2024 – present

- Devised full-stack website for **10k+ viewers** using **Next.js**, Typescript, and Tailwind CSS
- Integrated with **Discord bot API** to extract event information from server with **4k+ members**

PROJECTS

Sift | Spring Boot, AWS S3 & EC2, Selenium, Python

May 2024

- Created a robust service to automate the retrieval of internship listings from Fortune 100 companies
- Utilized **Spring Boot MVC architecture** to interact with **Amazon S3** buckets through controller mappings
- Achieved **89%** reduction in manual monitoring through crontab job scheduling, sending email updates via **SMTP**

WhimsiWay | TypeScript, Python, React, Flask

Feb 2024

- Engineered a vehicle safety application with a route finder to avoid accident hotspots
- Leveraged **DBSCAN machine learning algorithm** to find hotspots within specified city boundary
- Integrated Mapbox API's directions plugin to offer navigation options amidst accident-prone areas

Curious Collections | TypeScript, JavaScript, Express, Notion - Hackathon winner

Mar 2024

- Developed full-stack album inventory management application featuring experimental Notion database
- Implemented content-based **album recommendation algorithm** using **TF-IDF vectorization** and cosine similarity machine learning techniques to suggest recommendations

A&M Grade Distribution Reporting | Python, React, Flask, MongoDB

Aug 2023

- Built website to sort grade distributions by course and teacher, integrating with Rate My Professor
- Utilized BeautifulSoup4 to scrape URLs containing grade distribution report PDFs through a custom context

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, TypeScript, JavaScript, HTML, CSS, SQL, PHP, PowerShell

Frameworks: React, Angular, .NET, Next.js, Node.js, Express, Flask, Tailwind CSS, Bootstrap

Developer Tools: Git, npm, Jira, Azure, AWS, Cloudflare, Docker, Google Cloud Platform, Firebase

Libraries: TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup4

Certificates: Oracle Java SE 8 Associate, OpenEDG Python Institute Python Associate

Interests: Blender, fashion, shoegaze, synthesizers, medieval fiction