

# SWYAM DUBEY

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## EDUCATION

|                                      |  |          |
|--------------------------------------|--|----------|
| <b>University of Texas at Austin</b> | BS Computer Science<br>Minor: Business   | May 2028 |
| <b>Relevant Coursework:</b>          | Object Oriented Programming, Algorithms, Data Structures, Discrete Mathematics<br>Financial Accounting |          |

## EXPERIENCE

|   |                         |
|---|-------------------------|
| <b>Flock – Software Development Intern;</b> Houston, TX   | Summer 2025             |
| • Developed 15+ reusable React/TypeScript components (gradient color pickers, image uploaders, undo/redo functionality) for a no-code web builder platform.   |                         |
| • Optimized application performance by 40% through React rendering improvements and Nx monorepo architecture. Implemented responsive design principles, resulting in a seamless user experience across platforms.           |                         |
| • Improved mobile UI responsiveness and usability, enabling non-technical users to launch marketing campaigns faster. Reduced bundle size by 30% and improved initial page load by 2 seconds through lazy loading.          |                         |
| <b>Code Ninjas – Code Sensei;</b> Katy, TX  | Fall 2023 - Spring 2024 |
| • Taught game development and coding concepts to 30+ students aged 7–14, improving their understanding of logic, loops, and object-oriented programming.  |                         |
| • Mentored beginner students through projects in JavaScript, C#, and Scratch, fostering confidence and creativity in building their own games. Tailored curricula to their pace so they could ship original, playable games |                         |

## PROJECTS

|   |             |
|---|-------------|
| <b>American Academy of Pain Medicine Hackathon</b> – First Place Winner; Austin, TX   | Spring 2025 |
| • Designed a mobile-friendly chronic pain management prototype with daily symptom logging and medication tracking, giving patients an intuitive way to monitor their condition.                                   |             |
| • Incorporated expert medical feedback to simplify input fields and add customizable patient profiles, directly addressing clinician concerns about usability.  |             |
| • Collaborated with a multidisciplinary team to refine UI elements and data visualization, ensuring the prototype met both patient and healthcare provider needs.   |             |
| <b>Computational Research (University of Texas at Austin)</b>   | Fall 2025   |
| • Engineered an auto-parameterized 3D pipeline (thresholding, connected components, neck detection) to isolate a target structure and compute surface area/volume from closed meshes, with voxel-based fallbacks. |             |
| • Delivered a reproducible CLI (CSV/STL/plots) with stability tests and performance-minded NumPy vectorization  |             |
| <b>FareHunter – HackTX Hackathon Project (<a href="https://farehunter-nu.vercel.app/">https://farehunter-nu.vercel.app/</a>)</b>  | Fall 2025   |
| • Built a traffic-aware ride “drop-off optimizer” that finds cheaper on-the-way stops near a destination while keeping walking under a user-set radius.   |             |
| • Integrated Mapbox driving-traffic for real travel times, alternate route enumeration, and tail-segment sampling to ensure candidates are on the actual route  |             |
| • Modeled fare estimates (distance + duration + surge heuristic) and compared against baseline route to surface strictly cheaper options; deep-links users directly into Uber with prefilled pickup/drop-off.     |             |

**Tax Return Filing Workflow** – Created a website for CPA firm to manage its Tax filing Workflow, 2024

## ADDITIONAL INFORMATION

Languages: Java, C#, Python, JavaScript, TypeScript, C, HTML, CSS

Frameworks: React, Next.js, Tailwind CSS, NestJS, Nx Monorepo

Databases & APIs: SQL, Google Maps API, Supabase, DynamoDB

Design (Certificates): Adobe Photoshop, Illustrator, Animate

ERPs: SAP S/4 Hana: SAP Certified Associate - Low-Code/No-Code Developer - SAP Build

Certification: Studying for Certified Information System Auditor (ISACA)