

Shiven H Patel

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Education

Temple University - College of Science and Technology

Philadelphia, PA

Degree: Bachelor of Science in *Computer Science* with Minor in *Mathematics*

CGPA: 3.38 / 4.00

Expected Graduation: May 2026

Certifications

AWS Certified Solutions Architect – Associate (SAA-C03) | Amazon Web Services | Aug 2025

AWS Certified Security – Specialty (SCS-C02) | Amazon Web Services | *In Progress* (Target Dec 2025)

Skills

- **Programming Languages:** C, Swift, SwiftUI, Java, Python, JavaScript, CSS, HTML
- **Cloud & AWS :** EC2, S3, RDS, DynamoDB, VPC, IAM, Lambda, API Gateway, CloudFormation, Security & Cost Optimization
- **Software Development:** Algorithms, Data Structures, OOP, Automation, File Handling
- **Web Crawling & Data Processing:** Scrapy, XPath, CSS Selectors, REST APIs, ETL Pipelines
- **Frameworks & Libraries:** Docker, Kubernetes (basic), React, Node.js, Express.js, Flask, Git
- **Tools & Technologies:** Docker, RESTful APIs, SQL, Git, JUnit, JavaMail API, Apache POI, Xcode
- **Version Control & Collaboration:** Agile Methodologies, Scrum, GitHub, GitLab

Professional Experiences

Mainline Surgical Center

Bala Cynwyd, PA

Web Development Intern

May, 2024 – Sep, 2024

- Designed and implemented responsive websites using **HTML5, CSS3, and JavaScript**, increasing user engagement by **25%**.
- Automated email workflows using **Java**, reducing **manual processing time by 50%**.
- Contributed to an **EHR system** for a surgical clinic using **Java and MySQL**, improving **data retrieval efficiency by 40%**.
- Developed **intuitive user interfaces** with **JavaFX**, enhancing **usability by 20%**.
- Utilized **Agile methodologies** to improve **team productivity by 15%**.

Projects

Cyber Security Simulation Platform

October, 2024–Jan, 2025

- Developed a **cybersecurity simulation platform** using **Python and Flask** to help users practice real-world threat scenarios.
- Implemented multiple **threat models**, including **SQL Injection, XSS, and brute force attacks**, allowing users to explore and test defenses.
- Developed Python-based web crawlers using Scrapy with **XPath** and CSS selectors to simulate attack surfaces and extract structured data; implemented retry logic, randomized headers, and proxy rotation to mimic human browsing and bypass anti-crawling measures.
- Deployed the platform on a **secure AWS server**, ensuring **scalability and user data protection**.

Real-Time Data Visualization Dashboard

Sep, 2023– April, 2024

- Developed a full-stack web application for real-time data visualization using **React, D3.js, Node.js, and MongoDB**.
- Optimized **data processing and rendering** for large datasets, ensuring **smooth performance and efficient real-time updates**.
- Implemented **WebSocket** for **live updates**, enhancing real-time interactivity.
- Deployed the application on **Heroku and AWS**, ensuring **scalability and high availability**.
- Built **interactive user interfaces**, improving **user engagement and data exploration**.

VerboVista - iOS Development

August, 2022– Jan, 2023

- Developed an **iOS language learning app** using **Swift and Xcode**, integrating **ARKit** for **augmented reality experiences**.
- Integrated **real-time translation and speech recognition** using **Google Cloud APIs**, enabling **seamless multilingual interactions**.
- Utilized **Core Data** to manage **local user progress and vocabulary storage** efficiently.
- Designed a **user-friendly interface** with **SwiftUI**, improving **accessibility and user experience**.
- Deployed and tested the application on **iOS devices**, ensuring **smooth performance and responsiveness**.

