

# Hammad Akbar

## Full Stack Developer and Digital Accessibility Expert

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### SKILLS PROFILE

**Programming Languages:** Python, Java, Swift, C/C++, Bash

**Web Development:** HTML, CSS, JavaScript/TypeScript, PHP, React (incl. Native), Socket.IO, Flask, Material-UI, SCSS

**Tools & Technologies:** Git, GitHub, Heroku, AWS, Jira, Confluence, Postman, OAuth, SQL, PostgreSQL, SQLAlchemy, REST APIs, RPA

**Software Development:** Full Stack (Python + React) using MVC pattern; Agile/Scrum methodologies

**Accessibility:** Knowledge of WCAG 2.1 (A & AA), Section 508; experienced with NVDA, JAWS, VoiceOver, TalkBack; skilled in remediating UI issues (HTML, CSS, ARIA, JavaScript)

**UI/UX:** Proficient in responsive design and cross-functional collaboration with design/dev/QA teams

**Other:** Strong grasp of software development lifecycle, OOP principles, database design, and web architecture

### WORK EXPERIENCE

#### Principal Software Engineer

Affiliated Monitoring | September 2024 - Present

- Led a team of 3 engineers in migrating the company customer portal from a legacy system to React, reducing page load time from 4.3s to 1.9s and cutting UI related bug tickets by 42%.
- Architected and optimized backend services using PHP and Python, reducing API response times by 33%.
- Designed and implemented API frameworks that enhanced interoperability and reduced integration time by 17%.
- Optimized database queries and implemented caching strategies using Redis and MySQL, improving system efficiency and increasing customer data import speed by 20%.
- Partnered with product managers and stakeholders to define technical roadmaps aligned with business objectives.
- Collaborated in creating System Design Documentation for existing company products and establishing protocol to create documentation for ongoing and future development.
- Conducted in-depth code reviews and mentored engineers, improving code quality and team productivity.

#### Full Stack Developer

DGA Security Systems | June 2022 - September 2024

- Worked with product managers and business leads to re-architect the company dealer portal, improving page speed and load times by 13%.
- Met with vendors and implemented various external APIs, allowing customers to create security keypad users and synchronize changes to internal databases, reducing customer care reliance by 48%.
- Created new features using Swift and React Native on various DGA iOS apps, improving customer use and satisfaction.
- Tested software for bugs and operating speed, fixing bugs, and documenting processes to increase efficiency by 18%.
- Developed new internal tools and created instructional guides for customer care agents, improving speed and accuracy in service request handling by 27%.
- Participated in on-call rotations, working with team members to help resolve critical bugs and providing incident management when required.

#### Software Engineer – Digital Accessibility

Capital One | April 2021 – June 2022

- Acted as a subject matter expert and perform automated and manual assessments on Capital One web pages under development to ensure compliance with WCAG 2.1 A and AA standards, Title III of the Americans with Disabilities Act, and other applicable federal and state laws that apply in countries where Capital One maintains business.
- Examined and maintain existing HTML and JavaScript code to minimize accessibility issues, reducing outstanding accessibility bugs by 20%.
- Supported over 1000 Agile development teams in a highly collaborative environment to remediate existing web and mobile applications.
- Assisted in creating new reporting guidelines and regulations, increasing accessibility intake and review completion by 25%.

### EDUCATION

**Bachelor of Science in Computer Science with a Minor in Biology**

New Jersey Institute of Technology | 3.4 GPA | September 2016 - December 2020

### PROJECTS

Developed multiple full-stack web and mobile apps including an iOS expense tracker (*PennyLogger*), a political education platform (*Poligram*), and a real-time chat room (*The Chat Box*), using SwiftUI, React, Python/Flask, and PostgreSQL.

Built with OAuth, API integrations, and real-time web sockets.

View full portfolio: <https://www.about-hammad-akbar.com/works.html>