

## ZAHRA SHEFA

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### PROFESSIONAL SUMMARY

Full-stack engineer specializing in building scalable, secure web applications with clear, maintainable code. Expert at aligning architecture with business needs and fostering collaboration in agile, feedback-driven teams.

### TECHNICAL SKILLS

**Languages & Frameworks:** Python (Flask, FastAPI, Tkinter), PHP (Laravel), JavaScript (React), HTML/CSS

**Data & Storage:** MySQL, SQLAlchemy, Eloquent ORM, file I/O, database normalization (3NF), ER diagramming

**Software Design & Practices:** Object-oriented design, modularization, reusable/concise coding, documentation (docstrings), code clarity

**Tools & Methods:** Git, REST APIs, authentication/encryption, unit testing, agile methodologies, server deployment

**Other Tools & Domains:** Bootstrap, Unix, prompt engineering, Figma, Canva, Monday.com, MySQL Workbench, data analysis

**Interpersonal & Team Skills:** Strong collaborator, open to feedback, and proactive in offering positive, constructive suggestions

### PROJECTS

**The First Micro Finance Bank – Loan Management System** | Duration: 3 Months | [GitHub Repository Link](#)

- Built a full-automated loan processing system—eligibility rules, document management, workflows, scheduling.
- Used by microfinance institutions across loan officers, credit/risk, back office, branch staff.
- To remove manual bottlenecks, ensure consistent decisions, and cut errors/time.
- Boosted staff productivity ~40%, slashed processing time, and improved traceability with audit logs and document capture.

**SecureCalc (Flask, OOP / Modular Design)** | Duration: 1 Month | [GitHub Repository Link](#)

- Built a web calculator with auth, logging, and operations (% , sum, avg, min/max, remainder) in modal pop-ups.
- For secure environments like internal or compliance teams.
- To centralize secure, traceable arithmetic tools.
- Improved security and auditability, seamless UI, and extensible architecture.

**Online Inventory System (Flask / Full-stack)** | Duration: 1 Month | [GitHub Repository Link](#) & [Deployed Site](#)

- Built a web-based supermarket inventory system with category-based product organization and full CRUD via interactive tables
- For supermarket staff, inventory managers, and small business operators
- To streamline inventory workflows, reduce manual errors, and allow real-time updates via browser
- Boosted efficiency with fast in-browser updates, improved data accuracy via validation, reduced training time with a responsive UI, and deployed as a production-ready app on Render.com

**Hospital-Database (Python / Tkinter / OOP)** | Duration: 2 Months | [GitHub Repository Link](#)

- Developed a standalone hospital database app using Python and Tkinter, with class-based GUI widgets (tables, scrollbars) and persistent storage via text files, updating tables in real time.
- Designed for small clinics, hospital admins, or medical office staff needing a lightweight local patient tracking tool.
- To offer a simple, self-contained interface for hospital data management without needing a full database setup.
- Delivered a functional GUI app; changes appear instantly; structured modular code; lowered deployment complexity by avoiding heavier database dependencies.

**Online Quiz Application (HTML / CSS / JavaScript)** | Duration: 1 Month | [GitHub Repository Link](#)

- Built a web quiz app (HTML/CSS/JS) with user registration, timed multiple-choice quizzes, and instant results
- For learners, educators, or quiz participants seeking interactive, browser-based quiz tools
- To provide a lightweight quiz utility with no server backend—ideal for embedding in learning sites
- Delivered responsive design across devices, engaging timed quizzes with instant feedback, simple setup (browser-only), and smooth navigation with session personalization

### EDUCATION:

**B.S. Computer Science, Kabul University** | Mar 2008–Dec 2011

**Coursework:** Python, JavaScript, HTML/CSS, PHP, Java, C++, Flask, Laravel, SQL (MySQL), Assembly, CCNA 1–4, Network Security, Data Structures, Computer Architecture, Data Analyzation, Unix, Prompt Engineering,

Currently As Backend Web Development Trainee at DAE