

BABAK ASKARY

B.S. in Computer Science

Baabakaskarii@gmail.com | (716) 931-1505 | Dunkirk, NY 14048

EDUCATION

State University of New York at Fredonia – Fredonia, NY

Jul 2024 – May 2026

Bachelor of Science, Computer Science

GPA: 3.99

Relevant Coursework: Computer Science I, Computer Science II, Computer Security and Ethics, Systems Programming, Assembly Language & Computer Organization, Paradigms of Programming Languages, Data Structures, Software Engineering, Introduction to Operating Systems, Data Communications & Networks, Design & Analysis of Algorithms, Relational & Object Databases, Web Programming II, Object-Oriented Programming, Introduction to AI / Knowledge Engineering.

Islamic Azad University – Tehran, Iran

2017 – 2022

Bachelor of Civil Engineering

TECHNICAL SKILLS

Programming Languages: C++, PHP, SQL, HTML, CSS, JavaScript, Assembly, Swift

Technologies & Tools: Git, Bash, Bootstrap, Docker, Drupal, WordPress, SwiftUI, REST APIs

Full-Stack Development: End-to-end web and mobile applications including database design, API integration, back-end logic, and responsive front-end interfaces.

Cybersecurity: Network security, encryption, authentication (IAM/MFA), and vulnerability assessment; hands-on experience with Wireshark and Nmap (TestOut Security Pro certified).

Software Engineering: Algorithms, data structures, debugging, OOP, software design principles, version control (Git), unit testing, database design, and clean coding practices.

UI/UX Design: Clean, modern, responsive interfaces for web and mobile, with focus on usability and intuitive user experience.

Soft Skills: Teamwork, Communication, Problem-Solving, Critical Thinking, Time Management, Adaptability, Leadership, Attention to Detail, Accountability, Self-Motivation.

WORK EXPERIENCE

Computer Science Department, SUNY Fredonia – Fredonia, NY

Jan 2025 – Dec 2025

Teaching Assistant

- Assisted multiple professors (Dr. Arnavut, Dr. Mehdipour, Dr. Shimanovich, Dr. Singh, Dr. Szocki) with grading, tutoring, and student support.
- Supported courses including Web Programming, Object-Oriented Programming, Python Programming, Data Structures, Computer Science I & II, Assembly Language, Database Systems, and other upper-level Computer Science courses.

Independent Web Developer (Freelance) – Fredonia, NY

Sep 2025

Freelance Web Developer

- Designed and developed a custom academic and research portfolio website for a university professor, tailored to highlight publications, courses, and research interests.

State University of New York at Fredonia – Fredonia, NY

Jun 2025 – Aug 2025

Contract Web Developer

- Selected for a competitive summer contract after excelling in the university's Web Team internship.
- Served as the primary developer for the official "Fredonia Bicentennial" website.

- Built major front-end and back-end components, including templates, layouts, and database integrations.
- Delivered high-quality work under tight deadlines and ensured seamless deployment.
- Maintained performance, accessibility, and branding standards.

Marketing & Communications, SUNY Fredonia – Fredonia, NY

Aug 2025 – Dec 2025

Web Developer Intern

- Contributed to the redevelopment of "BlueView," Fredonia's campus-wide 4K digital signage system.
- Redesigned slide layouts to be fully responsive across 4K displays and smaller screens.
- Developed a custom weather API and integrated real-time data across all campus screens.
- Diagnosed and resolved slideshow issues, improving performance and reliability.
- Coordinated feature requirements and design updates with the Marketing & Communications team.

Marketing & Communications, SUNY Fredonia – Fredonia, NY

Jan 2025 – May 2025

Web Developer Intern

- Improved the main university website's UI design, accessibility, and performance using Siteimprove.
- Identified and fixed interface bugs, optimized layouts, and improved mobile responsiveness.
- Built a new multi-photo gallery feature and conducted backend updates using PHP & SQL to support new functionality.
- Developed cleaner, more maintainable code using PHP, JavaScript, HTML/CSS, and SCSS.
- Ensured design consistency with university branding and collaborated across teams.

Takhfif Land E-Commerce Start-up – Tehran, Iran

Feb 2019 – Oct 2023

Founder / CEO / Developer

- Identified a major trust gap in Iran's e-commerce market and implemented solutions such as "pay on delivery" to increase customer confidence.
- Designed a fully accessible UI/UX and independently developed the platform using PHP, SQL, HTML, CSS, JavaScript, and Bootstrap.
- Built a custom C++ accounting and sales-tracking application to optimize operations.
- Scaled the business to over 2,000 daily sales and transitioned from solo development to leading a team for improved scalability.
- Contributed 15% of profits toward technology access for underserved communities.

PROJECTS

"Nerkkeh Rooz" – Real-Time Currency Exchange Tracker (Web & iOS Application)

- Built a real-time iOS app and web-based admin dashboard using Swift, PHP, SQL, and Bootstrap.
- Developed a custom RESTful API for seamless real-time synchronization and user personalization.
- Designed intuitive UI/UX with live charts, historical data, and responsive layouts.
- Implemented data scraping with Symfony DomCrawler and GuzzleHttp, integrating automated updates.
- Achieved over 50,000 users within the first six months on the Apple App Store, with a 5-star rating.

Deep Remove – Native macOS Application Uninstaller

- Built a native macOS app using Swift, SwiftUI, and MVVM + Clean Architecture to fully uninstall applications and detect orphan system files left behind across macOS.
- Engineered a multi-signal leftover detection engine combining bundle identifiers, app metadata, developer names, sandbox container URLs, embedded helpers, and Launch Services data.
- Scanned 25+ user and system Library locations and classified findings with a four-tier confidence model (exact / strong / partial / uncertain) for safe, accurate cleanup.
- Hardened removals with an Apple/system blocklist, running-process checks, Full Disk Access handling, and Trash-only deletion via NSWorkspace — no sudo, no rm -rf.
- Designed a modern SwiftUI interface with drag-and-drop, batch multi-select, real-time progress, removal previews, JSON audit logs, and full dark-mode support.

FitMeSoon – Full-Stack iOS Nutrition Platform with USDA Data Pipeline

- Designing a full-stack nutrition tracking platform using Swift/SwiftUI (iOS), Python, PostgreSQL, and Docker, built around a canonical 9-table food database.
- Built a Python ingestion tool that spins up Postgres in Docker, initializes the schema, seeds reference tables, and imports the full USDA FoodData Central dataset.
- Engineered a 5-phase streaming import pipeline ingesting ~2M foods, 70M+ nutrient values, 2.1M+ servings, and ~1.9M barcodes in ~5–10 minutes on a recent Mac.
- Authored YAML-driven mapping layers (categories / units / nutrients) and a dual-interface tool exposing a Rich-based TUI plus an argparse CLI for scripting and CI.
- Started the SwiftUI iOS client to consume the shared schema as the source of truth, with a planned diff-and-promote workflow to sync USDA-derived foods into production.

Taskara – Full-Stack Collaborative Task Management Platform

- Led a 4-developer team and built a full-stack task management platform with React 19, Node.js/Express, PostgreSQL (Neon), JWT/Auth0, Socket.IO, and Cloudinary.
- Architected a feature-grouped monorepo with clean separation of controllers, services, routes, models, and Socket.IO handlers for maintainability and testability.
- Implemented real-time collaboration, secure authentication, image/file attachments, and Hugging Face AI-assisted task features for smarter task workflows.
- Built progress dashboards and performance metrics with Recharts, plus search and filtering across tasks, comments, and attachments.
- Defined the Git branching strategy (main/develop/feature) and commit conventions, enforced via protected branches and required PR reviews. (github.com/babak-askary/Taskara)

AWARDS & SCHOLARSHIPS

- Commencement Marshal, SUNY Fredonia (2026) — selected for academic excellence.
- Dean's List – All Semesters.
- John Beck Memorial Scholarship (2025–2026) – \$700.
- Chee-Wai Chan Scholarship (2025–2026) – \$650.
- Chee-Wai Chan Scholarship (2026–2027) – \$650.
- Dr. Robert Rie Endowment Fund Scholarship (2024–2025) – \$1,100.

CERTIFICATIONS

- TestOut Security Pro Certification.
- Raspberry Pi Certification – SUNY Fredonia.
- Full Stack Web Development – Andisheh Center, Tehran, Iran.
- MS Office International Certificate.