

# TIMOTHY WEAVER

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## PROFESSIONAL SUMMARY

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Software Engineer with B.S. in Software Engineering (GPA 3.83, Graduated August 2025, Summa Cum Laude) and currently pursuing M.S. in Computer Science with a focus on Machine Learning, AI, and Cybersecurity at Arizona State University. Skilled in full-stack development, AI-powered application design, and cloud deployment. Proficient in Java, Python, JavaScript, and modern frameworks including Spring Boot and React.js. Experienced in REST API development, containerization with Docker, and AWS cloud services. Over 18 years of business operations and leadership experience. U.S. Army veteran with security clearance eligibility.

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, JavaScript, C++, SQL

**Frameworks and Libraries:** Spring Boot, React.js, Node.js, RESTful APIs, Express.js

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase/Firestore

**Cloud and DevOps:** AWS, Docker, CI/CD Pipelines, Linux, Git, Maven, FFmpeg

**Development Practices:** Agile, Scrum, OOP, Test-Driven Development, SDLC, Microservices Architecture

## PROFESSIONAL EXPERIENCE

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### Software Engineering Student - Capstone Project

Arizona State University | 06/2024 - 05/2025

- Contributed to Field Day, a wildlife data collection PWA for biology researchers conducting capture-mark-recapture studies
- Developed mobile and desktop web applications using React, Firebase, and Firestore with offline support for remote field use

### Clinical Engineer

Stanford University Hospital | 01/1995 - 12/2002

- Led equipment management operations as Department Head at Mt. Zion Hospital, San Francisco
- Managed budgets, vendor contracts, and preventive maintenance programs to sustain optimal performance

### Business Owner and Operator

Stokers Motorcycle Service | 01/2003 - 12/2020

- Founded and grew motorcycle service business achieving 200% revenue increase over 17 years
- Implemented digital inventory and CRM systems, managed team of 8 technicians and training programs
- Maintained 95% customer satisfaction rating

## EDUCATION

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### Master's Degree - Computer Science

Arizona State University | Expected Dec 2026 (In Progress)

**Focus:** Machine Learning, Artificial Intelligence & Cybersecurity

Relevant Coursework: Artificial Intelligence, Data Mining, Foundations of Algorithms, Distributed/Multiprocess Operating Systems

### Bachelor's Degree - Software Engineering

Arizona State University | Graduated August 2025 | GPA: 3.83 | Summa Cum Laude

Relevant Coursework: Foundations of Machine Learning, Data Structures & Algorithms, OOP, Database Management, Web-Based Applications, Secure Software Engineering, Operating Systems, Mobile Systems

## MILITARY SERVICE

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### United States Army

01/1990 - 12/1994

- Served at Walter Reed Medical Hospital
- Received two Army Achievement Medals for meritorious service

- Security clearance eligible

## TECHNICAL PROJECTS

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### **VidlyAi.com - AI Video Generation Platform**

*Technologies: Spring Boot, React.js, PostgreSQL, AWS, Docker, FFmpeg*

- Designed and developed AI-powered video generation platform with scalable REST APIs and JWT authentication
- Integrated FFmpeg for video processing, reducing processing time by 40%
- Deployed using Docker containers with CI/CD automation on AWS, achieving 99.9% uptime
- Implemented responsive design for desktop and mobile platforms improving user engagement

### **Field Day - Wildlife Data Collection & Management Tool (Capstone)**

*Technologies: React, Vite, Tailwind CSS, Firebase, Firestore | Team of 5 | Jun 2024 - May 2025*

- Built a Progressive Web App for wildlife researchers conducting capture-mark-recapture studies in remote locations
- Developed mobile data collector with offline support and desktop data manager with CSV export and dynamic data management
- Implemented Google Authentication, custom data input forms, and responsive design for field and lab environments
- Collaborated using Git and Agile methodologies; sponsored by ASU Biology Professor Heather Bateman