

PUNIT SHUKAL

602-614-6398 | punit.n.shukal@gmail.com | Tempe, AZ, 85282
<https://github.com/shukalpunit> | shukalpunit.github.io/portfolio | linkedin.com/in/punit-shukal/

EDUCATION

Master of Science in Computer Software Engineering **May 2026**
Arizona State University 3.63 / 4.0
Coursework: Adv DSA, Software Verification Validation and Testing, Foundations of Software Engineering, Game programming & design, Semantic Web, Data Visualization, Software Requirements & Specifications, Software Project/Process/Quality Management.

Bachelor of Technology - Information Technology Engineering | Minor in Artificial Intelligence and Machine Learning **Jun 2024**
University of Mumbai, Mumbai, India 3.56 / 4.0
Coursework: Software Engineering, DSA, Advanced DBMS, Operating Systems, Paradigms & Computer Programming, Automata Theory, Computer Networks and Security & Network Design, DevOPs, Management of Information systems, Big Data Analytics, Blockchain & DLT.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, C++, C#, Lua
Frameworks & Libraries: React.js, React Native, Node.js, Express.js, FastAPI, Bootstrap, Pandas, NumPy, Socket.io, WebSocket, Prisma ORM, Jest
Databases: PostgreSQL, MySQL, MongoDB, Redis, Firebase, Supabase, SPARQL, NoSQL
Cloud & Platforms: AWS, Google Cloud Platform (GCP), Firebase
Software Engineering: Full-Stack Development, REST API Development, Object-Oriented Programming (OOP), Data Structures & Algorithms, Distributed Systems, Agile Methodologies, Software Testing & Debugging, Retrieval-Augmented Generation (RAG)
Tools & Technologies: Git, GitHub, Tableau, PowerBI, VS Code, Figma, JSON

WORK EXPERIENCE

WEVIBE: CONNECTION BEYOND SWIPING **Jan – May 2026**
Appyyo, Tempe, AZ 5months
Tech: TypeScript, Node.js, PostgreSQL, Express.js, Redis, Google Cloud Platform, Prisma ORM, WebSocket, Socket.io, Jest, Firebase.

- Designed a weighted **compatibility matching engine** using personality, interests, lifestyle, age, distance, and gender preferences, while implementing concurrency-safe processing that reduced duplicate match attempts by ~90%.
- Developed a secure **photo upload pipeline** using **Google Cloud Storage** signed URLs, idempotent processing, and automated cleanup workflows, achieving **98%+ upload completion reliability** and improving overall platform stability.

GRAPHIC INFORMATION TECHNOLOGY COURSE GRADER **Jan 2025 – May 2026**
ASU, Tempe, USA 1y 5months
Evaluated coursework and web development projects submitted by **400+ students**, **reviewing code quality**, responsiveness, accessibility, SEO effectiveness, and software design principles.

- Provided detailed technical feedback on **HTML & CSS** and **GitHub-based assignments**, helping students improve code structure, code quality and debugging practices along with learning GitHub fundamentals.
- Assisted with instruction of **web development workflows, Git version control, Visual Studio Code tooling, web publishing and frontend troubleshooting techniques.**

GIT Courses: 215 - Introduction to Web Authoring, 337 - Web Content Design, 414 & 515 - Website Design, Internet, Web.

WEB DEVELOPER INTERN **Jan – May 2024**
Nextgen Techno Ventures, Mumbai, India 5months
Tech: ReactJS, SQL, MongoDB, Rest APIs, GIT, HTML, CSS, JavaScript, Figma,

- Developed and maintained web application features using **ReactJS** and **JavaScript**, contributing to the delivery of **5+ client-facing web pages** and interactive user interfaces. Built and integrated **REST API** endpoints to support **data retrieval** and form submission workflows, improving communication between frontend components and backend services.
- Worked with **SQL** and **MongoDB** databases to store, retrieve, and update application data, writing queries and performing basic schema modifications to support evolving business requirements.

PROJECTS & CERTIFICATIONS

Health Guardian AI *Python, FastAPI, React Native, Supabase, Google Gemini API* **Sep 2025**
SunHacks MLH Hackathon

- Built an **AI-powered** dietary recommendation platform to analyze food images, lab reports & health metrics to generate personalized guidance.
- Designed and implemented a multi-stage health reasoning pipeline including food detection, nutrition analysis, risk assessment, and **LLM-driven** recommendation generation using **FastAPI**, **Supabase**, and **Google Gemini**.
- Developed **RESTful** backend services and structured **JSON-based** data flows to support seamless communication between AI services and the **React Native** mobile application.
- Implemented health report parsing, dietary risk classification and AI recommended food alternatives, improving interpretability of health recommendations for end users.

MoneyNest – AI-Powered Financial Wellness Platform *Next.js, Supabase, Claude API, Gemini API, Eleven Labs, TS, React* **Apr 2026**
Innovation Hacks

- Engineered a **financial learning platform** with 6 gamified financial literacy modules, tightly integrated with AI-generated nudges and **personalized recommendations** based on user behavior and progress.
- Built a **full-stack web application** with budget tracking (manual + CSV import), dynamic action plan generation and reactive **AI feedback loops**, creating a unified product experience where gameplay, analytics, and coaching continuously reinforce each other.