

Arpandeep Singh

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EDUCATION

Arizona State University <i>Bachelor of Science in Computer Science</i> <i>GPA: 4.0</i>	Tempe, AZ <i>Expected: May 2026</i>
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EXPERIENCE

AI Software Developer Intern Atya Labs Tempe, AZ	<i>May 2024 – Present</i>
<ul style="list-style-type: none">Engineered a RAG-powered AI agent with OpenAI embeddings, Pinecone, and Supabase Auth, achieving 90% faster document retrieval from Google Drive via secure semantic search.Automated SEO analytics pipelines using Google Search Console & Analytics APIs to auto-generate AI-driven PowerPoint/PDF reports, saving 15+ analyst hours per report and boosting client retention by 20%.Developed an AR Door & Window Visualizer with React, Tailwind, and Firebase, enhancing catalog engagement by 2.5x and reducing seller onboarding time by 60%.	
Software Developer Intern VB Cosmetics Inc. Chandler, AZ	<i>May 2025 – Aug 2025</i>
<ul style="list-style-type: none">Automated processing of 15K+ QA PDFs using Java & Selenium, cutting manual effort by 90% and accelerating QA cycles by 95%.Integrated Amazon SP-API with SYSPRO ERP through a secure Python middleware (OAuth), reducing integration costs by \$12K annually.Deployed ETL pipelines to migrate 100K+ Zendesk tickets to Salesforce with 100% field-mapping accuracy, enabling real-time analytics for six departments.Designed Power BI dashboards integrated with SYSPRO ERP, automating KPI tracking and shortening reconciliation cycles by 30%.	

PROJECTS

SmartHabit GitHub <i>Spring Boot, RESTful API, React, Supabase, OpenAI, MySQL, VAPID</i>
<ul style="list-style-type: none">Engineered a full-stack AI wellness platform that analyzes user behavior and delivers personalized habit insights, boosting user consistency by 45%.Developed JWT-secured REST APIs and Supabase authentication powering 10K+ sessions, with automated Spring Scheduler for daily reminders and progress tracking.Integrated GPT-4-based analytics and browser push notifications via VAPID, generating adaptive feedback and increasing habit completion rates by 38%.
ClassGPT GitHub <i>Python, FastAPI, React, OpenAI, Pinecone, Redis, Canvas API</i>
<ul style="list-style-type: none">Built an AI-powered course assistant delivering real-time answers from Canvas data with 95% factual accuracy through context-grounded GPT reasoning.Implemented multi-source data ingestion and vector-based retrieval with Pinecone, improving semantic precision and cutting query latency by 60%.Integrated Redis session memory for short-term context retention, enabling smooth, multi-turn conversations across 1000+ course QA sessions.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript (ES6+), C/C++, SQL (PostgreSQL, MySQL)

Frameworks & Libraries: React, Spring Boot, FastAPI, Node.js, LangChain, Flask, Streamlit, PyTorch, TensorFlow, Tailwind CSS

AI & Cloud Infrastructure: OpenAI API, Gemini API, Pinecone Vector DB, RAG Pipelines (LangChain), Supabase, Firebase, MongoDB, Google Cloud Platform (GCP), AWS

APIs & Integrations: RESTful APIs, OAuth 2.0, Web Push (VAPID)

Developer Tools: Git, GitHub, Docker, Postman, VS Code, IntelliJ IDEA, Cursor AI, Jupyter, Power BI

LEADERSHIP

Vice President, ACEL–ASU: Directed 20+ high-impact professional and cultural events engaging 500+ attendees, advancing AAPI leadership, mentorship, and career development.

Treasurer, Startup Village: Secured \$5,000+ in ASU funding to organize large-scale entrepreneurial events, strengthening campus innovation and startup collaboration.

Undergraduate Teaching Assistant: Mentored and guided 1,000+ computer science students through instruction, labs, and assessments, improving engagement and academic outcomes.