

Priyadarshan Kabra

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EDUCATION

University of Maryland

College Park, MD

B.S. Computer Science & Mathematics | Minor in Robotics GPA: 4.0/4.0

Expected May 2028

- **Coursework:** Algorithms, Data Structures, Computer Systems (C/Asm), Programming Languages, OOP (Java)

EXPERIENCE

Software Engineering Intern

May 2026 – Aug 2026

Verisign

Reston, VA

- Automated weekly reporting for the .com and .net registry operator, cutting 2+ manual hours per week.
- Triageed thousands of hosts down to 50-200 noncompliant, resolving owners via ServiceNow and auto-emailing.
- Prototyped a VAST-to-Spark-to-Tableau pipeline to cut SLA and server metrics off a legacy Oracle dependency.
- Rebuilt a legacy Jenkins report script, adding data sections and fixing formatting to end manual edits.

Software Engineer, Core Contributor

Nov 2025 – Present

Jupiterp

College Park, MD

- Build and maintain features for an open-source course planning platform used by 7,000+ UMD students monthly.
- Shipped user-created calendar events by unifying them with course blocks under one type and render path.
- Helped migrate professor review and historical grade data from PlanetTerp into Jupiterp's course dataset.

Software Engineer, Contract

Jan 2026 – June 2026

Rip Current Sports

Kensington, MD

- Built an internal platform automating sales lead discovery and grant writing for a sports equipment company.
- Cut manual lead research with a FastAPI pipeline scraping and structuring prospects via Tavily and Gemini.
- Automated grant drafting via a RAG engine over past applications using pgvector HNSW search and Claude.

Software Engineering Lead

Sep 2025 – May 2026

OneClique (UMD ACM)

College Park, MD

- Led a 20-person team building an AI assistant answering student questions on classes, dining, and transit.
- Generated conflict-free schedules from plain-English requests via 20+ tools over the full course catalog.
- Ranked candidates on professor rating, class timing, and historical GPA to surface the top 5 schedules.

PROJECTS

Clementine – Distributed Browser Compute | *TypeScript, Next.js, Socket.IO, LangGraph*

Mar 2026

- Turned any group of phones and laptops into a shared compute cluster joinable by scanning a QR code.
- Halved a 35-second single-machine job to 17 seconds, scaling near-linearly as more devices joined.
- Split jobs into parallel Web Worker subtasks via LangGraph, onboarding new devices in under 5 seconds.

Replay – Wearable Motion Capture (2nd Place, Bitcamp) | *Python, Three.js, Swift, ESP32*

Apr 2026

- Built a wearable system capturing full-body movement in real time and replaying it as a 3D scene.
- Reconstructed a full skeleton from two 20 Hz ESP32 IMUs, inferring bare limbs via inverse kinematics.
- Streamed 2M-point ARKit clouds at 20-30 FPS with minute-long replays via a custom Three.js shader.

BraiLink – Low-Cost Braille Printer | *Python, Raspberry Pi, React, SQLite*

May 2025

- Designed and built a Braille printer for under \$200, roughly 95% below comparable commercial models.
- Hit >99% embossing accuracy driving a 3-axis punch and paper-feed mechanism from a Raspberry Pi.
- Presented at the NJ Center for Deafblindness; drew early investor interest at an MIT startup fair.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, TypeScript, SQL, JavaScript, Rust, OCaml, Swift, Bash, HTML/CSS

Frameworks: FastAPI, Flask, React, Next.js, SvelteKit, Tailwind, LangChain/LangGraph, Claude Code / MCP

Data & Infrastructure: PostgreSQL, MongoDB, Supabase, Spark, Hive, AWS, Docker, GCP, Jenkins, Git, Linux

Activities: Startup Shell, AppDev Club | 1st Place, MIT IEEE MicroMouse | National Merit Scholarship Winner