

Ainesh Chatterjee

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Education

University of Maryland

Dual BS: Computer Science (ML) + Mathematics

Dec 2025 | GPA: 3.38

University/CS Honors, Dean's List

Publications

- *Ipelets for Convex Polygonal Geometry*, published at SoCG, 2024
- *AgreeMate: Teaching LLMs to Haggle*, published at arXiv, 2024

Projects

context-mcp (active) | Creator

- Agent context tools: 25-50% lower tokens vs standard WebFetch, single-call API vs Context7's multi-round trips

Skills

- **Tech:** MCP, Kosong, DSPy/GEPA, LiteLLM, Claude SDK, PyTorch, Python, C++, Docker, AWS, PostgreSQL
- **Impact:** 2 Publications (SoCG'24, arXiv), Interim Clearance, Congressional App Winner, Eagle Scout

Experience

Tilli Software

AI Engineering MTS

Applied Research: Project ISO

Jul 2025 - Present | Hybrid

- **Built** autonomous agents for ANY site (Kosong/DSPy/MCP) **<\$0.01/task, 150k+ users**
- **Created** site2mcp: structured extraction → MCP servers **3M user rollout planned**
- **Architected** multi-tenant MCP super-server + GEPA optimization ↓**50% latency, 40% tokens**

Johns Hopkins APL

CS Intern - Interim Security Clearance

May - Aug 2024 | Laurel, MD

- **Developed** GAIfo variant outperforming imitation learning baselines
- **Optimized** CI/Docker pipelines **50% faster builds, 40% less memory**