

# Ainesh Chatterjee

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## Education

### University of Maryland

*Dual BS: Computer Science (ML) + Mathematics*

Dec 2025 | GPA: 3.38

University/CS Honors, BS/MS, 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*

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**