

# Adithya Bellamkonda

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## EDUCATION

### University of Alabama in Huntsville (Huntsville, AL)

Aug. 2023 – May 2027 (Expected)

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 4.0/4.0

- **Relevant coursework:** Data Structures and Algorithms, Software Engineering, Deep Learning, Operating Systems, Design Analysis of Algorithms
- **Activities:** Data Science And AI Club (Vice President), Association Computing Machinery (Membership Chair), SASE (Society of Asian Scientists and Engineers), ICPC (President)

## TECHNICAL SKILLS

**Languages:** Proficient Python (4 years), C++ (3 years), C (3 years), Java (3 years) | Intermediate R (2 years)

**Databases:** MongoDB, Cassandra, InfluxDB, Azure SQL Database, SQL (PostgreSQL & MySQL)

**Technologies:** Spring Boot, JUnit, Matplotlib, Django, NumPy, Pandas, Scikit-learn, Seaborn, TensorFlow/Keras

**Software:** Apache Hadoop, AWS (S3:EC2:RDS: LAMBDA), GCP, GIT, Docker, Azure, Terraform, gRPC, GraphQL

## EXPERIENCE

**Microsoft (Security Business)** – Software Engineering Intern | Redmond, WA Summer 2026 (incoming)

**BB:X | Roblox** – Software Developer for *Beyblade:Rebirth (60M+visits)* | Remote June 2025 – Present

- \* Shipped 10+ gameplay features in Lua/TypeScript, boosting DAU by 20% through core battle system updates.
- \* Built real-time combat and sync logic for 1K+ concurrent users with sub-100ms latency using custom RPC.
- \* Developed Python-based rollout tooling with latency tracing and integrity checks, cutting deploy risk by 60%.

**Corvid Technologies (Veritas)** - Software Engineering Intern | Huntsville, AL March 2025 - Present

- \* Built gRPC data pipelines with Protobuf, reducing latency 3× (150ms→50ms) for 1M+ daily messages.
- \* Developed real-time C/C++ simulation tools and automated Linux builds with Bash/CMake and POSIX sockets, improving execution speed by 35% and reducing compile times by 25% across HPC environments.
- \* Designed a modular JS/React/TS/Node.js interface, reducing config time by 50% and supporting 5,000+ sub-second task calls/hour for 10+ users.

**Madison CEO** - Software Engineering Intern (Full Stack) | Madison, AL Aug 2023 - May 2024

- \* Implemented 6 decoupled microservices using Java and Python with Spring Boot and Flask, handling 12,000+ daily API requests, leading to a 45% reduction in response latency and a 30% server load decrease.
- \* Led a 6-member cross-functional team to deploy a key React-Redux feature, boosting platform engagement to 800+ daily active users, and increasing session time by 20% within 60 days.
- \* Optimized 60+ complex MySQL queries, cutting page load times by 65% and improving database response throughput by 2.8x, profited about \$6000.

## PROJECTS

### Warp | Rust

Mar 2025 – Apr 2025

- \* Built a fully custom compiler in Rust with lexical analysis, typed AST, semantic checks, and function-level code generation, compiling toy language programs with 0.3s average compile times.

### TorrentSys | C#, .NET, TCP

Mar 2025 – Apr 2025

- \* Implemented a fully compliant BitTorrent client in C# using TCP sockets and async I/O, supporting 1,000+ concurrent peer connections and multi-file downloads.

## AWARDS/HONORS

### Competitive Programming

2024 – 2025

- \* ICPC competitor, codeforces rating: 1763 (Expert) (top 5%) globally, USACO Platinum level
- \* IQC WorldQuant national level bound (top 8%) globally, current Quantitative Research consultant
- \* IMO (International Mathematics Olympiad) training camp invitee (top 0.02%)

**College of Science Ambassador** - (15 selected out of 1000+) applicants to guide incoming students

2023 - present

**College of Science CS Ambassador** - (1 selected out of 800+) applicants to facilitate CS students

2023 - present