

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