Amith Bhat

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Education

University of Illinois Chicago — **Aug 2024 – May 2026**
M.S Computer Science, GPA: 3.66/4.0 — *Illinois, USA*

Coursework: *Machine Learning, Data Science, Artificial Intelligence, Cryptography, Security in Networked and Distributed Systems, Object Oriented Languages*

Birla Institute of Technology and Science, Pilani — **Aug 2018 – Aug 2023**
B.E. Electronics and Communication Engineering and M.Sc. Mathematics — *Goa, India*

Coursework: *Data Structures & Algorithms, Computer Programming, Machine Learning, Linear Algebra, Probability & Statistics, Mathematical Modeling*

Technical Skills

Programming: Python, C++, C, JavaScript
Data Analytics: Pandas, NumPy, Scikit-learn, Plotly
Tools & Frameworks: Git, Dash, Django, MySQL
Certifications: Deep Learning Fundamentals - NVIDIA, Data Analysis in Python - Coursera

Internship Experience

Mindgraph Technologies — **Jan 2023 – Jun 2023**
Data Analyst Intern — *Hyderabad, India*

- Created interactive dashboards for ML model insights using **Plotly-Dash** and **Pandas**
- Collaborated on project-specific data analytics to evaluate the performance of a ML-based PoC, analyzing over 70,000 data points and providing actionable insights that improved model accuracy by 12%

Samsung Research Institute — **Jul 2022 – Dec 2022**
Software Developer Intern — *Bangalore, India*

- Conducted a **Literature Survey** on Packet Loss Concealment using Deep Learning identifying innovative approaches
- Studied and designed implementations of signal processing techniques of the above methods, in Python, leveraging **NumPy** and **Librossa** libraries.

NIRD&PR — **May 2020 – Jun 2020**
Software Developer Intern — *Hyderabad, India*

- Developed cross-device compatible landing and booking pages for a Hostel Allotment System using **CSS, Bootstrap**, and **Node.js**, integrating with a **MySQL** database to capture booking data and streamline communication across 3 departments, resulting in a 20% increase in user engagement.

Projects

CallistoLite - Anonymous Reporting Protocol | *Python, libsodium, Cryptography* — **Mar - May 2025**

- Engineered a privacy-preserving reporting system using blinded DH-based OPRF, Shamir sharing, and authenticated encryption with XSalsa20-Poly1305
- Built a CLI-based workflow triggering report decryption only on match; sealed metadata with public-key encryption, enforced deduplication and unlinkability

Project Component - CS474:OOLE | *C++* — **Oct - Nov 2024**

- Designed a SequenceableCollection class using dynamic arrays to emulate resizable, contiguous storage with custom memory management, deep copy constructors, and methods like insertAt, removeAt, iterate, and grow
- Built a Simple Assembly Language Interpreter (ALI) in C++ simulating registers, memory, control flow, and SAL instructions using the Command design pattern; supported both step-wise and full execution with detailed state tracking.

Schedoc: Schedule an Appointment with a Doctor | *Django, Object Oriented Programming* — **May - July 2021**

- Developed a web application enabling patients and doctors to schedule/reschedule appointments with the help of interactive dashboards using **Django** and **MySQL** enhancing appointment time efficiency by 80%
- Implemented secure login via Google OAuth and SMTP OTP authentication.

Achievements

- Selected from thousands of applicants to attend the **7th Annual Summer School on Artificial Intelligence** at **IIIT Hyderabad**, focused on deep learning and applied AI research.