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EDUCATION

- **Indian Institute of Information Technology Guwahati** *Assam, India*
- **Bachelor of Technology in Computer Science and Engineering (CGPA: 8.18/10)** *Dec 2021 – Jun 2025*

WORK EXPERIENCE

Siemens *Feb 2025 – Jul 2025*
Technical Intern *Bengaluru*

- Engineered a DDoS-resilient IoT security framework using C++ with a memory footprint < 512KB providing multi-layer replay protection, interface failover, rate limiting and resource-bounded connection pooling, achieving 99.7% uptime across 50+ edge devices.
- Implemented Integrity and health monitoring modules, reducing incident response time by 80% through automated alert prioritization and anomaly correlation on resource-constrained hardware.

Cogneo Technologies *May 2024 – Aug 2024*
Software Developer Intern *Guwahati*

- Engineered REST API wrapper service for PostgreSQL, AzureSQL, and Snowflake using FastAPI; integrated workflow scheduling with Airflow, enhancing SaaS model efficiency by 40%.
- Automated AWS deployments securely using Terraform and Cloudflare reducing deployment time by 40%.

PROJECTS

ArcNest: AI-Powered Portfolio Website Generator 🐙 🌐 *Feb 2025 - Mar 2025*

- Built and deployed an AI-powered system using Next.js that combines web scraping agents, few-shot learning, and iterative content generation to convert user resumes into customized, production-ready portfolio websites, reducing manual creation effort by over 80%.
- Integrated seamless deployment pipeline with Github Pages, enabling users to generate and publish professional portfolios in under 60 seconds with real-time preview capabilities.

FileSys-CAS: A content-addressable Distributed File System 🐙 *Dec 2024 - Feb 2025*

- Designed a peer-to-peer content-addressable file system using Go, achieving 99.9% data integrity through SHA-256 hashing and distributed storage.
- Implemented file versioning and health monitoring, reducing data loss by 40% and improving fault tolerance with automatic peer redistribution.

Inventark: Smart Inventory Management System with Predictive Analytics 🐙 *Aug 2024 - Nov 2024*

- Developed a scalable Android app using Kotlin for real-time inventory tracking, reducing stockouts by 30% and excess inventory by 20%.
- Integrated ML models for demand forecasting, improving accuracy by 95% and decision-making speed by 40% with predictive analytics.

Cognito-LDAP Federated Identity Management System 🐙 *Jan 2024 - Apr 2024*

- Implemented Web Identity Federation by integrating Google OAuth with AWS Cognito to exchange credentials, leading to a 50% reduction in access control setup time, ensuring secure access to S3 bucket resources.
- Optimized LDAP for credential search efficiency, increasing granularity of role-based access by 50%.

SKILLS

- **Languages:** Javascript, Typescript, PHP, Java, SQL, C, HTML, Python, Kotlin, Go.
- **Frameworks and Libraries:** React.js, Next.js, Node.js, Laravel, FastAPI.
- **Technologies:** AWS Cloud, Google Cloud, Firebase, Docker, Kubernetes, Terraform, Git, OpenLDAP, OpenSSL.

COURSEWORK

Computer Security, Database Management Systems, Networking Protocols, Cloud Computing, Microservices Architecture, Data Structures, Algorithms, OOPS, Model-View-Controller (MVC) Architecture, Artificial Intelligence, Discrete Mathematics, Theory of Computation, Operating Systems, Computer Architecture.