

Tanmay Anand

Software Engineer | Chicago, IL

312-889-4477 | tanmay812024@gmail.com | [linkedin.com/in/tanmay-a-462640a0/](https://www.linkedin.com/in/tanmay-a-462640a0/) | github.com/tanmay6anand

SUMMARY

Experienced Software Developer with over 2 years of experience in developing scalable software solutions. Proficient in C++, JavaScript, Python, TypeScript, Node.js, Django, Hibernate, Maven, Gradle, AI, machine learning, Jenkins, Airflow, and Git. Seeking opportunities to leverage strong discipline, eagerness to learn, focus, intuition, decision-making, and predictive abilities to drive innovation in software development and Information Technology.

EXPERIENCE

Software Engineer

Jan 2024 – Present

Northern Trust

Chicago, Illinois

- Orchestrated Agile/Scrum cross-functional teams to deliver innovative software solutions, ensuring alignment with customer's business needs and deadlines; led code reviews and unit testing, elevating code quality and reliability by 40%.
- Spearheaded the development and maintenance of high-performance web applications and microservices using Python, JavaScript, Typescript, C++, and Django, boosting scalability and efficiency.
- Designed and implemented RESTful APIs in conjunction with 5 cross-functional teams, streamlining data flow using ETL and bolstering software compatibility; resulted in a 40% reduction in data transfer errors and a 25 % increase in application performance.
- Crafted responsive and user-centric front-end interfaces using ReactJS significantly improving client engagement and satisfaction.
- Optimized AWS and Google Cloud Platform (GCP) deployment strategies, managing and scaling cloud-based services effectively with automated Linux bash scripts reducing cloud bills by 20% monthly.
- Automated build and deployment pipeline using Jenkins, which accelerated release cycles and minimized manual deployment errors.

Software Developer

Jan 2020 - May 2022

Mphasis

Pune, India

- Engineered and optimized C++, Python and JavaScript based web applications and microservices, achieving a 40% improvement in system response time and scalability.
- Administered AWS services like EC2, S3, DynamoDB, and RDS to deploy robust cloud-based applications, enhancing operational efficiency by keeping system up-time 99.9% in a year
- Utilized Apache Airflow to design and manage workflows, automating complex data pipelines and improving overall efficiency in the software delivery process.
- Maintained rigorous version control with Git, streamlining collaborative development and ensuring codebase integrity by doing test driven development.
- Deployed a microservices architecture that decreased system downtime by 20%, substantially bolstering system reliability.
- Developed and integrated RESTful APIs for mobile and web applications, optimizing data retrieval processes and user experience.
- Refined project builds and managed dependencies using tools like NPM, PIP, Maven, Gradle, and Ant, leading to a 96% on-time project delivery rate.
- Innovated database design and optimization techniques, which enhanced query performance, data quality and system reliability.

PROJECTS

MEMO | C++, Python, Bash, Docker, VM, HPC, Linux

- Innovated a blockchain platform using proof of space, achieving 1000x energy efficiency compared to traditional proof-of-work systems.
- Scaled on Chameleon cloud, MYSTIC and 16 Raspberry Pis for deployment, benchmarking and testing with 1PB of disk storage
- Published a research poster in [SC'23](#)

Cloud Storage and Sharing Service | TypeScript, Node.js, React, MongoDB, AWS, Git

- Devised backend application and handled deployment of whole project on heroku and versal
- Established back end web application server using Node.js and MongoDB
- Authored a [research paper](#) and got a [patent](#) for this project

EDUCATION

Illinois Institute of Technology, Chicago, IL, USA

Aug 2022 - Dec 2023

Master of Science, Computer Science

GPA: 3.70

MIT ADT University, Pune, India

Aug 2018 - May 2022

Bachelor of Technology: Computer Science and Engineering

GPA: 7.60

TECHNICAL SKILLS

Languages	C, C++, Python, Java, R, SQL, Golang, JavaScript, TypeScript
Frameworks/Libraries	Django, Flutter, Microservices, React, NodeJS, Flask, JDBC, GraphQL, REST, OAuth, Keras, PyTorch, NumPy, Pandas, Tensorflow for Computer Vision, matplotlib, Scikit Learn, Pthreads and Cudas for Multi-threading
Database	MongoDB, DynamoDB, Elasticsearch, SQL Server, MySQL, PostgreSQL
Cloud technologies	AWS (EC2, S3, DynamoDB, IAM, Lambdas), Azure, Google Big Query, GCP (Google Cloud Platform), Hadoop, Spark, Apache Airflow, Pig, Hive, MapReduce, Docker, Virtualization, Linux shell, Bash, Git