

VISHESH KASTURIA

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Education

University of Pennsylvania

Philadelphia, Pennsylvania

Master of Science and Engineering (Computer and Information Science)

08/31/2021 – 05/16/2023

- **Teaching Assistant CIS557** (Programming for the Web) Fall '22 - teaching postgraduate students Web development.
- **Teaching Assistant CIS350** (Software Design and Engineering) Spring '22 - teaching Mobile and Web app development.
- GPA 3.80 (on a scale of 4.0)

Amity University

Uttar Pradesh, India

Bachelor of Technology (Computer Science and Engineering)

07/27/2016 – 08/24/2020

- Rank #1; Gold medalist; President of ASET Student Committee Computer Science Dept.
- CGPA 9.59 (on a scale of 10)

Experience

NVIDIA Corporation

Santa Clara, California

Software Engineer

05/22/2023 – Present

- Developing scalable web applications and CI/ CD pipelines core to critical business processes at NVIDIA.
- Tools and Technologies: TypeScript, .Net Core 6, Node.js, React, MongoDB, GraphQL, Docker, Artifactory

NVIDIA Corporation

Santa Clara, California

Software Engineer Intern

05/16/2022 – 08/26/2022

- Pilot in Charge of **Resource Reservation system** used by ~5 teams to schedule resources daily.
- **Redesigned APIs and Schema** to support modern frameworks and libraries like NoSQL & GraphQL **increasing utility by 20%**.
- Migrated on-prem services to cloud improving the response time and availability by over **100%**.
- **Improved the security and scalability** in existing workflows by integrating AWS services and Vault.
- Tools and Technologies: TypeScript, .Net Core 6, Node.js, React.js, Express.js, GraphQL, MongoDB, SQL, OData, AWS SQS

Ernst & Young

Haryana, India

Software Engineer

10/26/2020 – 07/28/2021

- Designed and implemented ML models to improve business operation efficiency by 25% for Public sector & Telecom clients.
- **Increased 9%** accuracy of existing client revenue forecast model with potential of **\$1M+ annual savings**.
- Implemented **model with over 82% accuracy** in predicting payment tenure of over 40 million customers.
- Tracked down **56 impersonators** in a National examination (**article published in Times of India**).
- Programmed a tool to perform Image Quality Assessment on **900K candidates** which **reported 22,000** candidates not meeting standard guidelines.
- Tools and Technologies: Python, PySpark, MTCNN, FAISS, Excel, Azure Data Lake Storage, Databricks, CosmosDB

Projects

1. Grouply.xyz - Group Social Networking ([Github](#)) ([Demo](#))

- Architected an E2E **No Refresh** Group social network MERN stack leveraging **Observer Design Pattern**.
- Designed a modular front-end optimized for viewing on desktop comprising more than **30 components**.
- Built a scalable backend with **40+ REST API** endpoints for different group, user and post functions.
- Devised **separate access control** for admins and user. Secured website access using **encryption and account logout**.
- Automated **90% Back-end** and **80% Front end testing** coverage using Supertest and Jest.
- Engineered a **CI/ CD pipeline** with Travis and website deployed using Heroku.

2. Guess the Celebrity – MERN stack Web App ([Github](#)) ([Demo](#))

3. Image Compression and N-Body simulation using QuadTrees in Haskell ([Github](#))

Skills

Programming: TypeScript (expert), JavaScript (expert), Python (expert), Java/ C++/ C# (expert), Haskell (project experience)

Web Development: Node.js, Express, React, Redux, GraphQL, .NET Core 6, OData, MongoDB, NoSQL, SQL, HTML5, CSS

Technologies: Git, Unix, Travis, Serilog, HashiCorp Vault, RabbitMQ, Heroku, Docker, Artifactory

Cloud: Azure Data Lake Storage, Azure SQL, Cosmos DB, Databricks, LUIS, AWS SQS