Devarsh Patel
Software Engineer

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EDUCATION

Master's in Computer Science, *New York University* — **Sep 2021 - present**
Coursework: Software Engineering, Machine Learning, Artificial Intelligence, Data Visualization, Computer Vision and Graphics

Bachelor's in Computer Science and Engineering, *Vellore Institute of Technology* — **Jul 2017 - Jun 2021**
Coursework: Data Structures & Algorithms, Operating System, Computer Architecture, Database Systems and Web Mining

SKILLS

Programming Languages: C++, JavaScript, Python, Java, Kotlin, PHP, Haskell, and Julia
Frameworks: NodeJS, ReactJS, VueJS, HapiJS, ExpressJS, HapiJS, Sequelize, TypeORM, Android, and TensorFlow
Databases and Tools: MongoDB, MySQL, MariaDB, SQLite, PostgreSQL, AWS (RDS and EC2), GCP, Git, Unix, and Windows

EXPERIENCE

Software Engineer — **Mar 2022 — Present**
New York University — *New York, NY*
- Led team of 2 software developers handling end-to-end software life cycle for 2 internal portals, reduced codebase by 17%
- Wrote a native JavaScript Academic Fitbit app, helped students track and plan their upcoming academic activities efficiently
- Redesigned live academic applications using modern JavaScript frameworks, increased scalability by 25% and uptime by 20%
- Developed modular core system architecture, decreased project re-deployment by 50% and improved network latency by 25%

Software Developer Intern — **Nov 2020 — Jun 2021**
MindInventory — *Gujarat, India*
- Enhanced and redesigned the existing food ordering ecosystem applications, which attracted 27% more customer traffic
- Developed a modularized and scalable backend server application for text detection with an overall accuracy of 98%
- Designed innovative flow-based synchronized animation technique for VueJS (NuxtJS) with 20% smoother flow than Vuetify
- Amplified the company's revenue by 10% through more client acquisitions as a direct result of improved user experience

Software Developer Intern — **Apr 2020 — Jun 2020**
MindInventory — *Gujarat, India*
- Spearheaded a team of 2 developers to develop a sophisticated social messaging platform backend with over 20K users
- Implemented scalable and reliable client-oriented tax filing system with query execution and deep visualization features
- Increased platform sales by 15% and reduced maintenance costs by 23% through improved core system architecture
- Developed a state-of-art graph representation technique for detecting concurrency and redundancy in SQL queries

PROJECTS

NotStackOverflow, *Full Stack*
- An online forum for collaboration between users to communicate their challenging problems and solutions
- Developed using progressive and cutting edge modern web technologies for ultimate user experience
- Built using ReactJS, TailwindCSS, NodeJS, ExpressJS, Sequelize ORM, and GraphQL frameworks

Dynamic3D, *Computer Graphics*
- Unique platform-independent graphical editor for creating 2D and 3D geometrical designs using CPU and GPU
- Created a naturalistic environment generating tool for object surroundings using dynamic cube mapping
- Rendered using C++, OpenGL, and Graphics Library Frameworks like GLM and GLEW

VitCoin, *Android*
- Android application for on-campus secure financial transactions, which reduces payment hassle by 36%
- Implemented easy-to-use features like QR Scanner and OTT(One Tap Transfer) for a seamless user experience
- Fostered using Android, Java, and MongoDB

NBANews, *MERN Stack*
- Real-time application for latest update on NBA games, reflecting live scores with game streaming services
- Implemented using MongoDB, ExpressJS, ReactJS, and NodeJS (MERN Stack)

ACTIVITIES

Course Assistant, CS-GY 6533 Interactive Computer Graphics, *New York University* — **Sep 2022 - present**
Section Leader, DS-GA 1007 Programming for Data Science, *New York University* — **Sep 2022 - present**