

# PALAK BATRA

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## Education

**Deenbandhu Chhotu Ram University of Science and Technology,** August 2017 - July 2021  
B.Tech(Electronics and Communication)  
**RS Public Senior Secondary, Class XII (CBSE)** April 2014 - June 2016

## Experience

**Software Engineer-2** Fidelity International Jan 2024 – Present

- Engineered a micro-frontend to display investment projections and enable CSV downloads using the MERN stack, AWS Lambda, API Gateway, and Terraform.
- Developed an API to fetch and store data in AWS DynamoDB through API Gateway.
- Created core features including pagination, CSV export functionality, and seamless multiplatform integration.
- Optimized APIs in Node.js using parallel request handling, reducing the processing time from **50%**

**Software Engineer-1,** Fidelity International Oct 2022 – Dec 2023

- Developed APIs in Node.JS, implemented CI/CD pipelines using Jenkins and terraform.
- Engineered a multithreaded script to automate start/stop of 40 applications, reducing time from 1.5 hours to 15 minutes.
- Wrote comprehensive frontend unit tests using JEST, increasing functionality reliability and reducing defect rates.

**Graduate Programmer,** Fidelity International Dec 2021 – Sept 2022

- Developed a Python Django web app to detect discrepancies in Fidelity fund factsheets by comparing data from Fidelity's and Morningstar's APIs, automatically flagging inconsistencies using Morningstar's data.
- Designed three intuitive screens presenting discrepancies in tabular, pie chart, and diagram formats, enhancing data visualization for business users and significantly reducing manual effort.

## Projects

**Ease Expense** (Personal Project) || MongoDB, Express.JS, React.JS, Node.JS, API Integration

- Developed a full-stack Expense Manager app using the MERN stack, enabling users to track, financial transactions with a responsive UI.
- Integrated secure authentication and optimized APIs, ensuring seamless user experience and efficient data handling via MongoDB.
- Deployed the app on Vercel and Render,** showcasing expertise in scalable full-stack web development and cloud deployment.

## Technologies

**Languages:** C++, JavaScript, TypeScript, HTML, CSS, SQL, XML

**Frameworks and Libraries:** Express.js, React, Next.js, Node.js, Jest

**Platforms and Tools:** Amazon Web Services (AWS), Terraform, Jenkins, Unix, Git

## CERTIFICATIONS & ACHIEVEMENTS

- BrilliantatBasics Award:** Automated trade reconciliation, reducing manual effort significantly.
- AWS certified cloud practitioner
- Mentored students as a TA at Coding Ninjas, teaching Data Structures and Algorithms, and optimizing/debugging their code.
- Secured rank 1429 in TCS Codevita pre-qualifier round.