Amar Nagargoje (3 yrs.+ of Software)

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EDUCATION

Master of Science in Computer Software Engineering, Northeastern University, USA 08/2023 – 05/2025
Relevant Courses: Data Structure and Algorithms (A), Object Oriented Design (A), iOS Development

Bachelor of Science in Computer Science Engineering, MIT University, India 08/2017 – 06/2021
Relevant Courses: Object-Oriented Programming, Network Structures, Operating Systems, Comp. Architecture

SKILL

Programming Skills	Java, C++, Swift, JavaScript, TypeScript, Python, HTML, CSS
Backend/Frameworks	Node.js, React, NextJS, RESTAPI, Hibernate/Spring Boot, SwiftUI, Flutter, Redux, GraphQL
Database/ Tools	GitHub, MySQL, PostgreSQL, MongoDB, AWS(IAM, EC2, S3, CI/CD, DynamoDB), Firebase
Research Paper	Smart Data Analysis for MSME for Purchase Invoice using Tesseract OCR - ISSN 2229-5518

WORK EXPERIENCE

Research Assistant, Northeastern University, Boston 04/2024 – Present

- Led end to end SDLC to build accessibility, client-server, subscription-based software from scratch using react
- Implemented backend using Node.js and wrote APIs to generate dynamic content and user auth. using AWS
- Ensured that the website adheres to accessibility standards WCAG (Web Content Accessibility Guidelines) and incorporated features to enhance usability for people with disabilities. Skills: React, NextJS, TypeScript, AWS, HTML, CSS, Native, Vercel

Software Engineer II, Coforge, India 06/2021 - 09/2023

- Led cross-functional teams in Java development to build bug-free, full-stack low-latency software, creating ~30 RESTAPIs
- Code reviewed, assisted PMs & architects to craft SRS from feature design, planning, and execution from scratch to production ready. Achieved ~17.7%↑ revenue growth from $0.8 million to $1.5 million
- Collaborated to craft SRS, achieving ~17.7% revenue growth.
- Led in CI/CD, functional docs, team worked in face paced env., shipping features enhancing performance by 30%
- Streamlined deployment, improved software quality through testing, debugging, and peer coding.
- Leveraged existing code for Singapore's Urban Authority, enhanced end-to-end use cases using Java 8 features and by configuring MVC architecture, session factories, this increased efficiency to process huge pdfs and reports like data
- Engineered resource-intensive SQL queries into joins/early retrieval/bypass irreverent rows, reducing complexity by 30%
- Reduced turnaround time by optimizing functions using appropriate data structures like maps and libraries for early read/write. Year-on-year product revenue grew from 18% to 24.5% Skills: Java, React, Type/JavaScript, Hib/Spring, AWS

Software Engineer Intern, Ombre, India 08/2020 - 03/2021

- Only intern to author live streaming use cases to production, improved architecture to BLoC level to lazy load UI. Resulting in a noteworthy surge in installs ~15K under 4 months
- Implemented notification systems in JavaScript framework to minimize front-end computation which also contributed to remarkable resurgence of app. Skills: Flutter, React, NextJS, Node, Firebase, JavaScript, MVC, Dart, AppStore, TestFlight

PROJECTS

ShoeStrideAR Github ↗

- New age e-commerce AR app, built to virtually try on shoes before making a purchase using AR. Implemented client-side and server-side using MVC arch. Achieved 98% accuracy. Skills: SwiftUI, AR/VR, Node.js, iOS, Firebase, Stripe Payment

Workwise: Effective Management Github ↗

- Built product management tool from scratch. Used object-oriented principles & MVC architecture. Implemented scalable RESTAPI's using redux stage-management. Skills: JavaScript, Redux, MERN

Monte Carlo Tree Search (MCTS) for Tic-tac-toe and Connect Four Github ↗

- Implemented Monte Carlo Tree Search algorithm for two classic games: Tic-tac-toe and Connect Four. MCTS is a search technique used in decision processes, notably in AI applications for game-playing. Skills: Java, MCTS, Optimizations, Search

CARE+ Github ↗

- Enhanced medical diagnosis by reducing false positives using real time analysis. Implemented lightweight classification algorithms and achieved 85% disease detection accuracy using BP and ECG signals. Skills: C++, Python, NumPy, Linux