

## Employment history

### Senior Software Engineer, The MathWorks Inc, Jul 2019 - Present

Natick, MA

- Led the design and development of scalable, high-quality, user-focused software solutions by adopting software design principles, achieving measurable improvements in user experience and system performance.
- Analyzed user data to inform software enhancements, driving noticeable gains in feature adoption and user engagement metrics.
- Meticulously engaged in peer code reviews, mentoring junior developers, and fostering a culture of continuous improvement.
- Conducted thorough code audits to identify inefficiencies, implementing solutions that significantly reduced bugs and improved software quality and reliability.
- Facilitated regular brainstorming sessions with cross-functional teams, leading to innovative features that aligned closely with market needs.

### Software Engineering Intern, Humanscale, Jan 2019 - May 2019

New York City, NY

- Designed and developed a simulation tool using React.js that brought down the project expenses by 20% by removing dependency on an external, licensed software tool.
- Implemented critical bug fixes that reduced the company expenses, which were charged by the partner software company.
- Created automated tests for the simulation tool, reducing testing time by 60%.

### Systems Engineer, TATA Consultancy Services (TCS), Jan 2015 - May 2017

India

- Migrated the database server using SQL Server Integration Services (SSIS) to use the DTSX package format which reduced the data pipelines processing time by 40%.
- Migrated the application server from licensed to open-source software, reducing project expenses by 25% and reducing vulnerabilities by 80%.

## Skills

Javascript	C++, Java	HTML/CSS	Problem solving
Source control (git, p4v)	AWS	MYSQL Server	JUnit, JSUnit
Software design patterns, SOLID	Node.js, React.js, Typescript	Agile software development, scrum	Docker, Kubernetes

## Education

### New York University | CGPA 3.5/4.0, New York City, Sep 2017 - May 2019

Master's degree in Computer Science

Course work: Software engineering, database principles, Java, data structures and algorithms, internet security and privacy, cloud computing, big data, introduction to machine learning.

### Guru Nanek Dev University | CGPA 8.2/10, India, Jun 2010 - May 2014

Bachelor's degree in Electronics Engineering

Operating Systems, Mathematics, Digital communication, embedded programming, Industrial automation, PLC programming.

## Projects

### Outdoor activity suggestions

A React application with AWS Cognito authentication, backed by AWS Lambda and MySQL server on Amazon RDS, allowing users to share and receive suggestions on places to visit, based on their set preferences.

### Docker-for-education

A DevOps tool used by students and graduate assistants of a programming language course to verify homework in the same environment to reduce any unexpected issues caused by the difference in hardware and compilation units.