

DEEPAK KUMAR

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EDUCATION

Northeastern University, Boston, MA

Master of Science in Computer Science

Sept. 2019 - Dec. 2021

GPA: 4.0/4.0

Related Courses: Programming Design Paradigm, Web Development, Information Retrieval, DBMS

Visvesvaraya Technological University, India

Bachelor of Engineering in Information Science

Aug. 2012 - Apr. 2016

GPA: 8.52/10.0

TECHNICAL KNOWLEDGE

Languages: Java, JavaScript, C#, Python, HTML, CSS

Databases: MongoDB, DynamoDB, MySQL

Tools: Docker, Nginx, Maven, Git, SVN, AWS, GitHub, BitBucket, Terraform

Frameworks: ReactJS, Node.js, Express.js, Spring Boot, Junit

Certifications: AWS Certified Solution Architect Associate, AWS Certified Developer Associate

WORK EXPERIENCE

Philips, Cambridge, USA

Software Engineering Co-op

Jan. 2021 - Aug. 2021

- Contributed to Philips open-source software by developing Roslyn analyzers to provide developers with real-time feedback on the code during development.
- Created GitHub Actions to collect 5 code metrics on .NET projects as part of the CI/CD workflow resulting in better code quality and Unit Testing.
- Improved an ASP.NET application to display code coverage and mutation scores of .NET projects on high charts. Built automated pipeline using Nginx and Docker.
- Automated creation of self-hosted build runners using Terraform, saving nearly 3 hrs of manual time spent on creating and configuring each build runner.
- Developed Auto-Sync functionality to sync files in 80+ GitHub repositories resulting in better maintenance and saved a significant amount of manual time.

Northeastern University, Boston, USA

Teaching Assistant - CS 4500 Software Development

Sep. 2020 - Dec. 2020

- Held office hours to clear student doubts, promoted code style which survives time and is easy to maintain. Graded assignments in multiple programming languages.

Slalom Build, Boston, USA

Software Engineer Intern

Jun. 2020 - Aug. 2020

- Led Cloud, DevOps, and Security effort in a team of 12. Provisioned AWS infrastructure using infrastructure as code, built Bit Bucket pipelines, and integrated front-end with App Center.
- Contributed as a Full Stack developer to develop the Stagen mobile app which will increase the ease of learning and customer involvement. Wrote and reviewed code for React Native, TypeScript, and Node.js.

Brillio, Bangalore, India

Software Engineer

Aug. 2016 - Aug. 2019

- Migrated Python server-based code to serverless code using Node.js and AWS Lambda which increased the response time of the application by 20%.
- Developed notification mechanism to notify stakeholders of a change in an attribute of a property listing of interest, resulting in more informed decisions and a 15% increase in returning customer base.

ACADEMIC AND PERSONAL PROJECTS

Plagiarism Detector (PlageWatch)

Sep. 2020 - Dec. 2020

- Built a react web app to detect plagiarism on Javascript files. Supports both single and multiple files.

Online bookstore (BookBar)

Feb. 2020 - Apr. 2020

- Collaborated on building a Full-stack web application that connects booksellers and buyers on a common platform. The app manages multiple user profiles, their login state, and order history.

Image Processing Application

Sep. 2019 - Dec. 2019

- Created an Image processing application to apply six filters on an image such as greyscale, sepia, mosaic, dithering, blur, and sharpen using MVC architecture and design patterns.