

# 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.