

# Deepak Kumar

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## EDUCATION

**Northeastern University**, Boston, MA.

Sep 2019 - Dec 2021

**Khoury College of Computer Sciences**

*Candidate for a Master of Science in Computer Science, GPA 4.0/4.0*

Related courses: Programming Design Paradigm, Database Management Systems, Algorithms, Web Development

**Visvesvaraya Technological University**, Malnad College of Engineering, Hassan, India

Aug 2012 - Jun 2016

*Bachelor of Engineering in Information Science, GPA: 8.52/10*

Related courses: Object-Oriented Programming, Data Structures, Algorithms, Web Development, User Interface

## TECHNICAL KNOWLEDGE

**Programming Languages:** Java, JavaScript ES6, TypeScript, Python

**Framework and Web:** Node.js, Spring Boot, React.js, React Native, HTML, CSS

**Database:** MySQL, NoSQL- DynamoDB, MongoDB

**Certification:** AWS Certified Developer Associate, AWS Certified Solution Architect Associate, OCI Certified

**CICD:** Terraform, AWS, Docker, Git, SVN, GitHub actions, Nginx

## WORK EXPERIENCE

**Philips**, Cambridge, USA

Jan 2021 - Present

**Software Engineer Coop** | *C#, Git, GitHub actions, Terraform, Shell scripting, Nginx, Docker*

- Contributed to Philips open-source software by developing Roslyn analyzers to provide developers with real-time feedback.
- Developed Auto-Sync functionality to sync the files in 80+ GitHub repositories saving a significant amount of manual time.
- Automated self-hosted build runners (Nutanix VM's) creation using terraform, saving nearly 3hrs of time for each VM creation and configuration.
- Built a functionality to collect more than 5 code metrics from across the repositories for each check-in.
- Improved an ASP.NET application to display code coverage and mutation scores across the repositories on high charts. Built automated deployment pipeline using Nginx and Docker.

**Slalom Build**, Boston, USA

Jun 2020 - Aug 2020

**Software Engineer Intern** | *React Native, AWS, App Center, Node.js, TypeScript, Bit Bucket, JIRA, Docker*

- Led Cloud, DevOps, and Security effort in the 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

Aug 2016 - Aug 2019

**Senior Software Engineer** | *Node.js, AWS, Python, HTML, JQuery, CSS, SVN, JIRA.*

- Implemented application by migrating Python server-based code to serverless code using Nodejs and AWS, which increased the response time of application by 20%. Used AWS CloudFormation to create and manage AWS resources.

**Software Engineer** | *Node.js, AWS, Git, JIRA.*

- Built a mechanism to send notifications on change of an attribute of a property listing, which helped stakeholders to make more informed decisions on a property, resulting in a 15% increase in returning customer base.

## ACADEMIC AND PERSONAL PROJECTS

**Plagiarism Detector (PlageWatch)** | *TypeScript, React.js, Node.js, Git, Heroku, Netlify*

- Built a web app to detect plagiarism on JavaScript files. Supports single file and multiple files in zip format.

**Image Processing Application** | *Java, Git.*

- 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.

**Book e-Commerce Website** | *Node.js, MongoDB, Express.js, React.js, Redux, Heroku, Git.*

- Collaborated on building a full-stack web app that manages different user profiles, scopes, and log in. The application provides a platform for buyers and sellers to buy and sell books.

**Northeastern University**, Boston, USA | **Teaching Assistant, CS 4500 Software Development**

- Held office hours to clear student doubts, promoting code style which survives time and is easy to maintain. Grading assignments of multiple programming languages.