

ASHISH BHAT

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EDUCATION

Virginia Tech: Blacksburg, Virginia.

May 2023

Master of Engineering in Computer Science & Applications

CGPA: 3.93/4.00

Relevant Coursework: Intermediate Data Structures and Algorithm Analysis, Usability Engineering, Data Analytics, Information Visualization, Software Engineering, Machine Learning with Big Data, Introduction to Urban Computing.

Thadomal Shahani Engineering College (University of Mumbai): Mumbai, India.

June 2021

Bachelor of Engineering in Computer Engineering

CGPA: 8.69/10.00

Relevant Coursework: Mobile Application Development, Web Design, Operating System, Distributed Computing, Cloud Computing, Human Machine Interaction, Advanced Algorithms, Computer Networks, Database Management Systems, Object Oriented Programming, Theory of Computer Science, Artificial Intelligence & Soft Computing.

WORK EXPERIENCE

Staples Inc., Framingham | Software Engineer

June 2023 – Present

- Migrated backend APIs from Node.js to Java whilst optimizing the code, ensuring compatibility, efficiency, performance and alignment with business requirements.
- Actively engaged in the learning and professional development of two interns by offering mentorship and technical guidance, enabling them to contribute effectively to team projects.

Staples Inc., Framingham | Software Engineer Intern

February 2023 – May 2023

- Developed an internal pointing poker application using Next.js, React.js, Pusher and Couchbase, which was adopted by all teams within the company, resulting in **improved efficiency** in the scrum estimation process.
- Eliminated the need for a third-party application, leading to significant **cost savings** as well as **enhanced security** and **data privacy** for organization data.

Virginia Tech, Blacksburg | Graduate Research Assistant

October 2022 – December 2022

- Developed, trained and tested an unsupervised Generative Adversarial Network-based anomaly detection framework to detect defects on univariate acceleration time series for five miles of a railroad track achieving a precision of **86%**.
- Implemented various techniques on a custom multivariate time series dataset for transforming it into images, like joint recurrence plots.

Staples Inc., Framingham | Software Engineer Intern

June 2022 – August 2022

- Redesigned the store filter component for the Staples website by adding the functionality for users to select multiple stores within a desired radius, using React.js, Redux.js, and Node.js.
- Developed RESTful web services (API) for the redesigned store filter component using Java and Spring Boot, and used Jenkins for continuous deployment, impacting **60%** of the traffic.

ACADEMIC PROJECTS

Analysis of Google Play Store Applications

- Designed a web-based interactive visual data story that allowed the audience to gain insights about the trends in the android market, helping them create successful applications, and hosted it as a public website using GitHub Pages.
- Employed the design sprint process, obtained the data, came up with the data story, sketched the visualizations, implemented it using D3.js, HTML, CSS, Javascript and evaluated the results.

Photo Sharing Application

- Developed an application for users to post photos with like and comment functionalities, using React.js, Redux.js, Node.js, Express.js and MongoDB.
- Implemented login feature using JSON Web Tokens and Google OAuth, as well as pagination and search functionalities.

TECHNICAL SKILLS

- **Web Design:** RESTful Web Services (API), Spring Boot, JavaScript, Bootstrap, React.js, Node.js, Next.js, Redux.js, Flask, jQuery, XML, PHP, CSS, HTML, HTTP, DOM, AJAX, D3.js, JSON.
- **Database Management:** MySQL, MongoDB (NoSQL), N1QL, Couchbase.
- **Programming Languages:** Java, Python, C, R.
- **Libraries:** Tensorflow, OpenCV, Keras, Scikit-learn, Pandas, NumPy, SpaCy, NLTK, Plotly, Seaborn, Matplotlib, Networkx, Tweepy.
- **Others:** Git, Heroku, Tableau, Maven, Postman, Jira, Linux, Windows, Bitbucket, Jenkins, Confluence, Scaled Agile Framework, Pusher, Swagger, Splunk, Microsoft Azure, Apache Kafka.

PUBLICATIONS

Bathija Pranav, Chawla Harsh, **Bhat Ashish**, Deshpande Arti (2022) Image Captioning Using Ensemble Model. In: Tuba M., Akashe S., Joshi A. (eds) *ICT Systems and Sustainability*. Lecture Notes in Networks and Systems, vol 321. Springer, Singapore. https://doi.org/10.1007/978-981-16-5987-4_35