Swathi Venkatesh

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Skills

- **Languages:** Java, C/C++, Python
- **Backend Technologies**: Web API, Node.js, PHP, Express(server-side)
- **Frontend**: React, Redux, Vue.js, JavaScript(ES5/ES6), jQuery, HTML5/CSS3, Bootstrap, TypeScript
- **SQL and NoSQL Databases**: MS SQL Server, Oracle, MySQL, MongoDB
- **Additional**: GIT, REST/SOAP API , Postman, Docker, Pandas , NumPy, Matplotlib, XML, JSON, Full Stack- MERN

Work History

Research Assistant

Old Dominion University, Norfolk, VA, USA   *May 2021 - Current*

- Developed Chrome Extensions that enables visually challenged users of Google Docs access its features efficiently.
- Designed a software using Logistic Regression and K-Fold validation to compare products available on various e-commerce websites, achieving an accuracy of 94.6%.

Teaching Assistant

Old Dominion University, Norfolk, VA, USA   *Jan 2021 – Apr 2021*

- Delivered lectures to 40 undergraduate students for the course CS120/121g - Research methodologies.
- Collaborated with professors on test administration, curriculum development and assignment grading.

Research Intern

Old Dominion University, Norfolk, VA, USA   *Jun 2020 – Dec 2020*

- Researched and interpreted large volumes of voice data to detect agitation in an individual. Conceptualized the solution using keyword searches, speech to text engines and Naive Bayer classifier, achieving 89% accuracy.
- Improved monitoring of social behavior metrics by developing a website using React and MongoDB for Virginia Health Department.

Software Intern

Opta Cabs Private Limited, Bangalore, India   *Jun 2018 –Aug 2018*

- Worked on the optimization of the REST API.
- Different parameters like number of threads, avg response time taken in Jmeter is measured till the point where the server logs fails to handle the number of threads.
- After optimization, the time taken to execute a query reduced having good impact on efficiency and performance of a application. 76.86 % improvement of response time taken in Jmeter was seen.

Software Engineer Intern

LMT Software Solutions Private Limited, Bangalore, India   *Jan 2019 – Feb 2019*

- Worked on d2Hup algorithm on mining high utility.
- Discovered high-utility itemsets in a transaction database containing utility information from shopping website. d2hup proved more efficient than UPGrowth and Two-Phase by 60.38%.

Technical Assistant Intern

Bharat Sanchar Nigam Limited, Bangalore, India   *Jul 2018 – Aug 2018*

- Worked on Optical Fibres and FTTH, proved FTTB can provide 10M uplink and downlink compared to 4M provided by FTTH.

Education

Master of Science: Computer Science

Old Dominion University, Norfolk, VA, USA   *Jan 2021 – Current*

- Current GPA: 3.8

Bachelor of Engineering: Computer Science

BNM Institute of Technology, Bangalore, India   *Aug 2016 – Sep 2020*

- GPA: 3.4/4.0
- Research Project: Candidate talent assessment through Recommender Systems using Machine Learning
- Academic Project: Image Based Registration and Authentication System, Security with Bitcoin on Cloud
- Secured first place in Semester 4 ; second place in Semester 1 and 2 of the VTU Examination.

Certifications

- Server side development with NodeJS, Express and MongoDB
- Full Stack Web Development with React
- HTML,CSS and Javascript for Web Developers
- JavaScript, jQuery and JSON