

VATSAL PARIKH

Herndon, Virginia (Open to Relocation)

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github.com/vatsalparikh

WORK EXPERIENCE

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|---|---------------------|----------------------------|
| Software Engineer | MassLight | Sep 2022 - Present |
| <ul style="list-style-type: none">Working on AARP website to allow members to manage membership information and make payments of membership fees with multiple payment options. | | |
| Senior Software Engineer | Data Society | Jul 2020 - Aug 2022 |
| <ul style="list-style-type: none">Built mldr.ai education platform where users can sign up and access Data Society's course catalog and learn collaborativelyArchitected and deployed a machine learning project on GCP by collaborating with a large (>5) team of data scientistsPlanned, designed, and developed backend and frontend of a financial dashboard tool for FDICEngineered .Rpres to .Rmd to HTML conversion in Python, moving thousands of legacy courses to a robust .Rmd formatSaved many development and testing hours by combining scripts running manually into an ETL pipeline running on Airflow | | |
| Full Stack Developer (Job title: Jr Java Developer) | Idexcel Inc | Dec 2019 - Jul 2020 |
| <ul style="list-style-type: none">Designed and developed REST APIs on serverless microservice architecture for financial software productConfigured messages and queues for inter-service communication, modified database configurations and code pipelinesPerformed development, debugging, unit testing in a codebase having layered architecture and continuous integrationCreated new features from existing components in React.js and integrated code with backendWorked in agile environment with bi-weekly sprints and daily scrum meetings | | |

TECHNICAL SKILLS

- Backend:** Java, Spring Boot, Hibernate, Python, Flask, Node.js, MySQL, PostgreSQL, Neo4J, GraphQL, REST
- Frontend:** React.js, JavaScript, Thymeleaf, HTML, CSS, JSON, D3.js
- Data Science:** pandas, NumPy, SciPy, Scikit-learn, Matplotlib, NLTK, TensorFlow, Anaconda
- Cloud:** Google Cloud Platform (GCP), Amazon Web Services (AWS)
- Systems / DevOps:** Git, Docker, Kubernetes, Linux, Bitbucket Pipelines, AWS CodeBuild and CodePipeline
- Concepts:** Object Oriented Design, Design Patterns, Functional Programming, Serverless, Natural Language Processing
- Tools:** Visual Studio Code, RStudio, Postman, Jira, Bitbucket, Github, Eclipse

PROJECTS

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|---|--|---------------------|
| Traveling Tourist Problem | Best Project award (50+ students) | Oct-Nov 2017 |
| <ul style="list-style-type: none">Designed algorithm for Traveling Tourist Assistant that takes in user preferences and suggests the best touring pathDeveloped an interactive user interface by embedding Google Maps API using JavaScript and HTML | | |
| Neural Machine Translator | | Jan-Apr 2018 |
| <ul style="list-style-type: none">Developed an English-German translation model in Python with 71% BLEU scoreImplemented encoder-decoder sequence-to-sequence model based on RNN and LSTM using Tensorflow and Jupyter | | |
| Airline Reservation System | | Mar-Apr 2018 |
| <ul style="list-style-type: none">Built relational database system with user interface for managers and customers using HTML, Java, and MySQLDeployed and hosted the website using AWS Elastic Beanstalk, RDS and EC2 instance | | |
| Of Recipes and Cuisines | | Oct-Nov 2017 |
| <ul style="list-style-type: none">Created a multi-class text classification model with 80% accuracy that categorizes cuisines based on ingredientsTrained the model in Python using Linear SVC on a dataset of 40000 pre-classified cuisines with 20 cuisine classes | | |

EDUCATION

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| New Brunswick, NJ | Rutgers University | May 2019 |
| <ul style="list-style-type: none">MS in Computer Science, GPA: 3.45Coursework: Data Structures and Algorithms; Artificial Intelligence; Data Storage, Retrieval, and Deep Learning; NLP; Computer Vision; Databases; Operating System Design; Design of Internet Services; Data Interaction and Visual Analytics | | |
| PVG'S COET, Pune, India | Pune University | May 2016 |
| <ul style="list-style-type: none">Bachelor of Engineering in Electronics and TelecommunicationCoursework: Soft Computing, Computer Networks, Computer Organization and Architecture | | |

ACHIEVEMENTS / ACTIVITIES

- HackRU Fall 2018 Successfully implemented address validation as per USPS standard in Python for address standardization
- Test Scores: **GRE - 332/340** (Quant - 170/170, Verbal - 162/170); **TOEFL: 111/120**