

Viraj Nilakh

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Objective

Seeking summer internship opportunities as a Software Engineer for May 2017.

Education

Masters in Software Engineering, San Jose State University
BE in Information Technology, Mumbai University

Graduation: May 2018 / GPA:3.77

Graduation: June 2015 / GPA:3.02

Technical Skills

Programming Languages: Java, Python, PHP, JavaScript, SQL

Also acquainted with: Java Servlets, Node JS, Express, HTML5, CSS3, Flask, SQLAlchemy, Bootstrap

Applications: Docker, Microsoft Visual Studio, Eclipse, Android Studio, Dreamweaver, Sublime, Atom, NetBeans

OS: Windows, Linux

Courses:

Software Systems Engineering, Enterprise Software Overview, Enterprise Distributed Systems, Enterprise Application Development, Software Quality Assurance and Testing, Web and Data Mining.

Academic Projects

REST API for handling HTTP requests using Flask REST | MySQL | SQLAlchemy | Docker | Flask | Python

- Implementing REST api by handling get, post, put, delete requests on MySQL database on the server side.
- Utilized SQLAlchemy to create, insert, delete and update the database in response to the HTTP requests.
- All the server side logic was implemented using Flask for request handling and routing.
- Dockerized the whole project and achieved dynamic replica registration, load-balancing and failure detection and error handling using circuit breaker.
- With the help of docker-compose the separate client and server containers were able to talk to each other.

Trip Planner Node JS | Express | REST | EJS | Google Maps, Uber, Lyft APIs | JavaScript

- Created a web app for comparing Uber/Lyft prices to recognize cheapest alternative for a route, selected by the user.
- Achieved robust handling of REST web requests using Node JS and Express.
- Integrated GoogleMaps, Uber, Lyft apis for comparing prices for a specified route.
- Implemented web design using bootstrap and EJS for templating.

Online Banking Java Servlets | MySQL | HTML5 | CSS3 | JavaScript

- Implemented server side programming with the help of Java Servlets.
- Achieved Database management using MySQL.
- Designed the website using basic HTML5, CSS3 and JavaScript.
- Provided facilities such as creating an account, login, logout, applying for loan, transferring money, checking balance, editing personal information, applying for a debit/credit card etc.

Time Allocation System Data Mining | Swing | Glassfish Server

- Developed K-means clustering algorithm, achieving time allocation for hospital appointment management.
- Clustering appointments for manipulating them based on doctor's availability.
- Designed GUI on NetBeans using Java Swing, providing login and logout facility.
- Achieved Database management using Glassfish server.

Multiplayer Game On Greenfoot Design Patterns | AWS | Restlet Framework | Java | MongoDB

- Designed a game on Greenfoot explaining minimum spanning tree in a fun and easy way to kids using Agile methodology.
- Implemented Design Patterns in java for achieving best coding practices.
- Integration with cloud using AWS, Docker cloud and MongoDB for storing scores.
- Utilized Restlet framework for communication between client, on host machine and server on the cloud.