Harsh Arvindbhai Modi

harsh@modi.click | GitHub: modiharsh04 | LinkedIn: in/harsh-modi-36011568

Professional Summary:

- Experience of **6 years** of academic study and 4+ years with **hands-on development**
- Experience in **Agile/Scrum**, **SDLC**(Requirements, Design, Development, Testing, Maintenance), and UML Designing
- Experience working with **Container-based, Linux** based **and cloud-based** software **development**
- In-Depth understanding of the **UI/UX requirements** for building a user-friendly application
- Experience working closely with the **client** and product team.
- Experience in implementing best practices of **object-oriented programming, design** i.e. **SOLID**
- Experience in developing **Restful** and **SOAP** web services, parsing **JSON** and **XML** data
- Expertise in **Data Structure**, **Multithreading**, **Collections**, **Exception Handling,** and **Serialization**
- Experience in developing secure applications using **JWT** and **OAuth API**
- Expertise in working with Relational Database Management Systems (**RDBMS**) such as SQL, Oracle
- Experience working with popular **public APIs** such as Google Maps, Facebook, Twitter, LinkedIn, Instagram, and Paypal, VAN API
- Experience with web development frameworks and technologies such as **HTML5**, **JavaScript, SQL**, **CSS3** and **SASS, Bootstrap, Google Material Lite, ECMAScript and TypeScript, Django, flask**
- Applied experienced in **debugging**, **implementing**, **troubleshooting,** and **unit testing**
- Excellent skills and knowledge of **Networking protocols** (i.e TCP/IP, UDP, HTTP, etc)
- Use Test-Driven Development (TDD)

Technical Skills:

Programming Languages:	Python 2|3, GoLang, JAVA(J2SE/J2EE) 7|8, Bash, JavaScript, C#, C, TypeScript
Web Technologies:	HTML5, CSS3, REST API, Web Services, Angular , XML, JSON, PWA, JQuery, Postman
Databases and tools:	MySQL, SQLite, PL/SQL, MongoDB, SQLAlchemy, Peewee
Framework:	Django, Flask, Gorilla, XAML, YAML, rq
Operating Systems:	Linux, Windows, macOS
Developing Tools:	Git, PyCharm, Android Studio, Xcode, Visual Studio, Bitbucket, Mercurial, Nginx

Education:

Master's in Computer/Information Technology Services Administration and Management, Louisville, KY 40220	GPA :TBA	March 05, 2022
Master's of Science, Computer Science University of Houston – Clear Lake, TX	GPA : 3.66 / 4	May 14, 2017
Bachelors of Engineering, Information Technology Gujarat Technical University, India	GPA : 7.63 / 10	Jun 24, 2015

Experience:

Engineer I, NSONE, Inc, New York City, New York   July 2020 - current
- Working on Full Stack Development with heavy Backend service work
- Be part of the agile development process and responsible for feature development, bug fixes, DevOps.
- Working on the development of containerized web applications with GoLang, containerized API development using Golang, Python, PostgreSQL.
- Using the practice of test-driven development, blue-green migrations, canary deployments.
- Writing and updating documentation and practicing standards of the programming languages while writing code.
- **Environment:** Linux, Mac OS, GoLang, Python, React, PostgreSQL, MongoDB, Docker, Bash, Graffana, HTML, CSS, JavaScript, JIRA, git, AWS, Digital Ocean,

Software Developer, Egen Solutions Inc, Naperville, Illinois   Feb 2020 - July 2020
- Working on Full Stack Development with heavy UI related work
- Be part of the agile development process and responsible for feature development, bug fixes, DevOps.
- Working on the development of containerized web applications with AngularJS, containerized API development using Java, Python, Kafka.
- Using the practice of test-driven development, blue-green migrations, canary deployments.

- Writing and updating documentation and practicing standards of the programming languages while writing code.
- **Environment:** Linux, Mac OS, Java, AngularJS, Kafka, PostgreSQL, Docker, Bash, Graffana, HTML, CSS, JavaScript, lodash, JIRA, git, s3 buckets

Software Engineer, The Tuesday Company, New York City, New York   Jan 2018 -
- Working on Full Stack Development   Feb 2020
- Be part of the agile development process and responsible for feature development, bug fixes, DevOps.
- Working on the development of containerized web applications with React, Mobile application for Android and IOS using React-Native, containerized API development using Python flask and GoLang gorilla.
- Database management for MySql and Google Big Data using ORMs SQLAlchemy and peewee, migration tool Alembic
- Using the practice of test-driven development, blue-green migrations, canary deployments.
- Successfully moved our web servers from single server node deployment to a multi-server architecture that can scale up and scale down depending on traffic on a cloud platform
- Have been responsible for implementing infrastructure and software designing like performance optimization, Memcached, Email server, Notification server (ios and android)
- I've held several meeting sessions to teach my peers about new technologies I have introduced into our tech stack
- Experienced developing application from scratch and upgrading from older technology to newer
- Writing and updating documentation and practicing standards of the programming languages while writing code. i.e. PEP8 (Python)
- **Environment:** Linux, Mac OS, Python, React, React-Native, GoLang, Docker, MySQL, Nginx, Bash, Google Cloud Platform, Digital Ocean, HTML, CSS, JavaScript, JSX, GoCD, JIRA, git, s3 buckets

Software Developer, Dreamtech LLC, Remote   Aug 2017 -
- RESTful API building using python Django.   Dec 2017
- Bug Fixes, maintenance, and plugins development for web application in an agile-scrum environment
- Working on Plugin Development to connect Application API using a python chatbot and transfer API data between applications in an automated manner
- Using CSS media queries for responsive design to maintain the uniformity of all the screens throughout the application and positioning of screen objects
- Using mercurial hg for version controlling and Unix VirtualBox for development environment
- **Environment:** Linux, VirtualBox, Python, Django, MySql, hg, JavaScript, HTML, CSS, Bootstrap, Asana

Projects:

Tour of Heroes (Angular 4/5, Progressive Web App, HTML5, CSS3, Web API, JSON)   Nov 2017
- Built a Progressive Web App (PWA) using Angular 4 CLI, Typescript, and Angular Material
- Built with Webpack using AOT and other optimization techniques for lighting fast experience
- Used CSS media queries for responsive design to maintain the uniformity of all the screens throughout the application
- Implemented ServiceWorker, Metadata for native app experience which also installs automatically on the user device with permissions on the first-time visit
- The implemented app gives the tour of players of a sports team with the ability to customize their favorite team
- The application can work offline and also gives a native app experience right out-of-the-box
- Implement Angular 4 custom directives as reusable components across different views

Blog App (Angular 5, Python, Django, Google App Engine, JSON, REST API, JWT, Bootstrap)   Sep 2017
- Developed a web app for users to post blogs
- Built with Webpack using AOT and other optimization techniques for lighting fast experience
- Implemented session handling and cache management
- Implemented front-end using Angular and Bootstrap
- Session management handled by JWT and restful web services

- Implemented JsonResponse using Django framework for better management of HTTP responses
- The developed stateless web application
- Used sass and Bootstrap framework for designing a responsive web app

Student education loan (C#, ASP.NET, MySQL, JavaScript, XML, XHTML, CSS)   Aug 2016 -
- Developed web portal to apply for a loan, check account and details about services   Oct 2016
- Designed database using MySQL, Portal using asp.net MVC, and web services using C#
- Implemented various optimization techniques like profiling, database indexing, query loop elimination, caching, and proper database designing technique
- Used session and application-level functionality of .Net Web Apps for maintaining different access levels

OTACS (.Net Framework 4.0, WPF, WinForms, C#, XAML, .Net C# SDK, XML, Angular CLI, Visual   Jan 2017 -
Studio)   April 2017
- Developed windows desktop application for accessing DLL plugins from various measuring instruments and generating data out of that and process different mechanisms/algorithms
- Successfully delivered application and managed a team of 4 people
- Wrote Node.Js modules which automate an email to mentors and team whenever a new requirement is posted
- Developed algorithm for simulating C# thumb, accessed C# sdk, Multithreading, MVVM pattern, and Continuous Integration
- The updated application continues as a platform for researchers to use their plugins(DLLs) and test with the work of other researchers
- Developed a responsive website using Angular CLI, Typescript, Bootstrap with all information about the project.

Game of Connect 4 (JAVA, C)   Aug 2015 -
- Built multi-threaded producer-consumer problem solution with three threads, 2 players, and   Sep 2015
  1 referee accessing 1 game board
- Game board access is synchronized between threads using conditional lock and mutex

The Web Service Architectural Pattern (Distributed system) (JAVA, C)   May 2016 -
- Developed a distributed system using socket programming and multithreading   Jun 2016
- Developed sequential service requesters, Multithreaded service brokers, and multiprocessor service providers. They can be distributed in the network
- An implemented routing algorithm for updating the broker database of working providers
- Everything was dynamic and updated via encrypted communication between systems
- A broker can handle multiple providers and requesters with multi-threading
  more work on my GitHub link

Additional Info :
- State **Award** for Civil Services, The Bharat Scout and Guide (Feb 2008)
- **Or**ganizer, Web Portal Developer @ GTU Techfest-14 Event (April 2014)
- Strong understanding of object-oriented programming, current design patterns, data structure & algorithms
- An excellent team player in a different culture with good verbal and written communication skills
- A very strong desire to grow and learn as an apprentice with a passion for learning new technologies and building high-quality systems with software implementation best practices

Links:
- https://github.com/modiharsh04
- https://www.hackerrank.com/modi_harsh04
- https://www.linkedin.com/in/harsh-modi-36011568
- https://leetcode.com/modiharsh04gmailcom/