Tanmay Fadnavis

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Objective

Seeking a full-time opportunity to extend my boundaries of learning by providing innovative technical solutions to challenging projects in a dynamic environment.

Technical Skills

- Programming Languages: C#, C++, .NET Framework, .NET Core
- Operating Systems: Windows, Unix, Linux, Mac
- Web Technologies: Azure Pipelines, Azure Artifacts, Azure Table, Azure Blob, HTML, CSS, JavaScript, REST
- Databases: SQL, MySQL

Work Experience

Microsoft Corporation   *Sep 2018 – Present*

Software Engineer 2   *March 2020 – Present*

- Developed feature to calculate and add new metadata information regarding the customer data. This information is used in billing for the customers.
- Developed multi domain feature for internal service using which the customers can decide which Azure Storage type to use for storing data. This is useful in reducing the cost footprint for the customers.

Software Engineer   *Sep 2018 – Feb 2020*

- Worked on highly scalable service that focuses on the storage of artifacts by deduplicating data.
- Developed Pipeline Artifact for Azure Pipelines which are used to store build outputs and move intermediate file between jobs in the pipelines.
- Developed Pipeline Caching for Azure Pipeline which help reducing build time by allowing outputs or downloaded dependencies from one run to be reused in later runs.

Intel Corporation - Computer Engineer   *June 2016 – Aug 2018*

- With HTML5, CSS3, JavaScript, Perl CGI and SQL, provided a full stack solution by designing and developing an indicator portal to analyze project health, disk usage, monitor filer loads and other statistical data, that supports a user base of 4000.
- Developed plugins and algorithms, to improve disk allocation which also reduced file server load by 20% for Continuous Integration Tool.
- Being responsible for the infrastructure, designed a fair sharing algorithm for better compute distribution which reduced the wait time by 15-17%, by developing scripts in Perl.

Syracuse University - Teaching Assistant, Software Modelling and Analysis   *Aug 2015 – Dec 2015*

- Created a custom noSQL database with remote key/value to perform various functions like query keys to fetch values, delete, and search. Implemented a virtual DB to incorporate complex query operations and used C# delegates to return the resultset.
- Assisted students at every step of their coursework and performed code reviews for their semester projects.

Intel Corporation - Software Developer Intern   *May 2015 – Aug 2015*

- Designed and developed websites, for hardware indicators, to identify dependencies and optimized the code of specific Register Transfer Logic(RTL) jobs by creating Gantt charts and thus reducing the turnaround time by 1 hour.
- Front-end: HTML5, javascript, CSS3
- Backend: PERL and PERL-CGI.

Projects/ Research Work/ Courses

Tiny URL - AWS, PHP, DynamoDB

- Developed a website to create a tiny url service which takes an incomprehensible url and returns a short version of it.

Virtual Private Network-C

▪ Created a VPN using OpenSSL socket programming using public key certification for server authentication and password authentication for client. Implemented TCP tunnel to control key exchange and Initialization Vector. Used UDP tunnel for data exchange an Encryption was done using AES and SHA256 algorithm. Used Inter process communication for exchange between TCP and UDP tunnel.

File Catalogue - C++

▪ Created a file catalogue system to store directory information and incorporate text search and find duplicate filenames on the path and leverage this project to build remote code management facility.

Remote Code Management Facility - C++/CLI (Communication Channel: Sockets)

▪ Designed and developed a client-server application using socket programming to allow source code file/text search, upload and download documents to/from server. Handled request/response using threads.

XML Parser - C++

▪ Designed and developed an XML parser to parse XML files and build document object model tree to parse tree to get element data; attributes, children, adding/removing children, to ease the navigation/manipulation of XML (simulation of .net XML class). Used C++ shared pointers to build XML DOM tree.

Remote Type Dependency Analyzer - C# (Front-end: WPF, Communication Channel: WCF)

▪ Created Code Dependency Analyzer, a client-server program, to find relationships between classes/functions and utilities of a C# code and to determine overall code complexity. Used LINQ queries to populate data on the front-end.

Past Experience

Bit Brothers - Co-Founder & Web Developer   *Jun 2013 – May 2014*

▪ Startup venture focused on Web Application Development
▪ Technologies: JavaScript, Twitter Bootstrap, Node.js, Backbone.js,.
▪ Developed websites using twitter bootstrap and node.js and phone application using phonegap

Infosys Pvt. Ltd. - Systems Engineer   *Dec 2011 – May 2013*

▪ Worked on internal tools developed using Cocoa Framework and PL/SQL, as a member of the product support team.
▪ Primary responsibilities: Software development, critical issue resolution and troubleshooting, and product support.

Education

Syracuse University	*M.S. Computer Science*	(GPA: 3.92)	*2016*
University of Mumbai	*B.E. Computer Science*	(Distinction)	*2011*