VISHWAS VIJAYA KUMAR

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objective: Seeking a challenging career in Software Development utilizing my knowledge and skills

EDUCATION

Indiana University Bloomington, Bloomington *August 2015 - May 2017*
M.S. in Computer Science GPA: 3.9/4.0

Visvesvarya Technological University, Bangalore, India *August 2009 - May 2013*
Bachelors of Engineering in Telecommunication Engineering GPA: 9.01/10.00

TECHNICAL STRENGTHS

Computer Languages	Java, .NET, C++, C, AngularJS, HTML, CSS, JQuery, PIG, HIVE
Protocols & APIs	XML, JSON, REST, AJAX, Java, POSIX
Databases	MySQL, PostgreSQL, Cassandra, MongoDB
Tools/Applications	Git, SVN, ELK, Netflix Suro, Jenkins, GoCD, Docker, TeamCity
Frameworks	Spring MVC, Hadoop, JUnit, Duck Angular, Solr
Build Managers	ANT, Maven, Gradle

EXPERIENCE

ThoughtWorks January 2014 - July 2015
Software Developer/ Technology Consultant *Bangalore, India*

- Minimized project effort and cost by designing a custom continuous integration and delivery framework using GoCD and TeamCity.
- Reduced manual effort by configuring an automated configuration management tool called Puppet.
- Engineered "sales forecasting algorithms", achieving 95% accuracy using Hadoop coupled with an administrative website using J2EE(Servlets, JSP) and JSDK (Java, JDBC) on Spring MVC improving decision-making time.
- Improved product development time by containerized the web application using Docker. Also, Implemented containers in delivery, further reducing feedback and delivery times.
- Boosted development time by incorporating the ELK stack to maintain a centralized log repository.
- Optimized business and technical decision-making process by designing an efficient data metrics collection mechanism using Netflix Suro and Graphite.

ThoughtWorks December 2013
Software Development Intern *Bangalore, India*

- Initiated the hardware engineering trend in ThoughtWorks.
- Successfully completed ThoughtWorks university, a trainee program by delivering a e-Commerce website to a bike retailer. Also, optimized the security of payment login using LDAP and implemented a custom payment service.
- Introduced "Meet-Up", a platform for developers to share ideas on open-source initiatives.
- Delivered a open hardware + open source robotic car platform called "theBot" build using RaspberryPi as the process and Golang.

COURSEWORK

Advanced Database Concepts	Advanced Operating System	Information Architecture of the web
Social Media Mining	Cloud Computing	Algorithms: Analysis and Design

PROJECTS

Xinu Operating System
Skills: C/C++, Operating system, Xinu, System design

- Context switch and scheduling: Implemented scheduling policies.
- Locks with Priority Inheritance: Developed a lock system to synchronize access to a shared data structure.
- Low-level Memory Management: Created memory management system by providing garbage collection support.
- Ethernet device driver: Implemented the Ethernet (smc91111) device driver for xinu operating system on arm-qemu.
- Future and promise implementation in Xinu: Designed and implemented future and promise synchronization protocol.

Automated Traffic Violation Detection
Skills: MSP430, Embedded C, Wireless Communication, Analog & Digital Electronics

- The findings of this research project were published at the International Conference on Advanced Computing and Communication Technologies, 2013
- he objective of this project was to introduce an automated system which detects and penalise violations at a street intersection such as No parking violation, stop line violation during red light and one-way violation and also trace each and every individual vehicle.
- Core duties included coding the logic using Embedded C and upload it onto the microcontroller, analyse the data we get, based on a sample tests and try to optimise the system.

RF Remote Controlled Land Mine Detector
skills: 8051, Embedded C, Wireless Communication, Analog & Digital Electronics

- The aim of this project was to control the movement of a remote controlled robot to detect land mines.
- The robot is controlled by a RF remote.
- A high sensitive induction type land mine detector is designed using Beat Frequency Oscillator principle and fixed on this robot.
- Core duties were to code the logic and upload it onto the microcontroller and build the land mine detector.

Online Hotel Reservation System
skills: HTML, CSS, PHP, Jquery, MySql, Web Development

- The system provides automated reservation and billing to the front desk and room booking facility to the guests.
- The aim of the project was to ease manual effort on the staff and avoid manual error.

Solidarity Foundation Website
skills: Ruby on Rails, HTML, CSS, JQuery, Bootstrap, PostgreSql

- The main aim of the website was to raise awarness about the discrimination caused to minority groups in India.
- It will act as a bridge between resources, ideas and knowledge. Also, help in raising funds.
- This website is hosted at solidarityfoundation.in.