

SACHIN BASAVANI SHIVASHANKARA

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WORK EXPERIENCE

Software Engineer | Celerity IT LLC. (Client: Amadeus North America) | Waltham, MA, USA [Mar 2019 – Present]

- Working as a back-end C++ software engineer for the Availability Calculator product in the Inventory team
- Working on adding new features as per requirements. Identifying and fixing bugs to maintain high standards for the product
- Responsibilities partly include working as a Technical business analyst, involving writing specifications and technical documentation, writing functional test cases, functional testing, gathering requirements, effort estimation
- The primary POC for incidents related to the product. This involves monitoring the KPIs, investigating/escalating incidents during KPI degradation
- C++, Python, Linux, Shell, highly collaborative team player, SAFe scrum (Scaled Agile Framework) practitioner

Test Engineer | Tessolve Semiconductors Pvt. Ltd | Bangalore, India [Oct 2014 – May 2016]

- Debugged Silicon at Wafer Sort (WS) and Final Test (FT) stages for multicore SOC processors
- Worked on VLSI testing, Scan and Functional debug. Developed test programs, validated test patterns/vectors
- Improved chip yield, optimized test-time, worked on corners testing and data analysis

TECHNICAL SKILLS AND INTERESTS

Programming Languages: C++, C#, Python, Shell, SQL, HTML, CSS, JavaScript, R, Java, C

Tools and Technologies: Visual Studio, WCF, WPF, RStudio, Windows, Linux, UNIX

EDUCATION

MS | Computer Engineering | Syracuse University, NY, USA | GPA: 3.70 [Dec 2018]

- Object Oriented Design | Software Modelling and Analysis | Advanced Data Structures and Algorithms | Internet Programming | Design patterns | Advanced Computer Architecture

BE | Electrical and Electronics Engineering | UVCE, Bangalore University, India | GPA: 3.74 [Jun 2014]

- Computer Architecture | Microprocessors and Microcontrollers | Power Electronics | Transmission and Distribution | Power Systems

TECHNICAL PROJECTS

Dependency based Code Publisher | C++ | Type Analysis | Parsing | HTML | CSS | JavaScript [Apr 2017]

- Created an application which supports publishing of source code (.cpp and .h files) as web (HTML) pages

Remote Build Server | C# | Asynchronous Communication | Message Passing | WCF | WPF [Dec 2017]

- Implemented a federated system which automates the building and testing of source code files. Implemented a Client (GUI), Repository, Build Server, and Test Harness to achieve this

Human Resource Analytics | R | Feature Engineering | Apriori | Decision Trees | Classifiers [Apr 2017]

- Evaluated the attributes behind the attrition rate in a company using a Human Resource dataset and provided corrective strategies

University Database | SQL | SQL Server | Stored Procedures | Functions | Triggers | Cursors [Dec 2018]

- Created a small-scale database to be used in a university setting. Normalized the database to Third Normal Form (3NF)

ACHIEVEMENTS AND OTHER ACTIVITIES

- Awarded 5th rank by Bangalore University in 'Electrical and Electronics Engineering' department (BE)
- President of Electrical club of IEEE UVCE during the final year of Bachelor's degree. Organized several technical events (quizzes, seminars etc.) during my tenure as the president