ASHWIN VENKATA KRISHNAN

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EDUCATION

Master of Science in Information Systems, Northeastern University, Boston, MA **Aug 2021 (Expected)**
Courses: Application Engineering and Development, Web Design and User Experience

Bachelor of Technology in Electronics and Communication Engineering, SASTRA University, Tamil Nadu, India **May 2015**
Courses: Micro-processors, Computer Programming in C, Image Processing, Virtual Instrumentation (LabVIEW)

TECHNICAL SKILLS

Programming Language:	Javascript, Java, C++, HTML, React JS
Database:	RDBMS, Apache Cassandra, Elastic Search, MongoDB
Application / IDE:	Eclipse, Net beans, Visual Studio Code, Dev Center
Framework:	Spring, Virtual Component Library (VCL), Swing
Version Control:	GIT, SVN
Methodologies:	Waterfall, Agile

PROFESSIONAL EXPERIENCE

Software Engineer (IVTL Infoview Technologies Pvt Ltd.– Chennai, Tamil Nadu, India) **July 2017 – Aug 2019**

- Managed the entire product life cycle in an enterprise package from Estimation to Quality Assurance and delivered 40 screens in Supply Chain Management and Accounts module.
- Ideated the formation of DevOps bug fixing team which could respond immediately to inquiries in the production environment and fix bugs promptly. According to monthly bug reports, the total number of bugs after the feature shipment was reduced by 60% emphasizing the focus mainly on quality.
- Defined code review standards of the organization and thereby framing a process that allows the developers to fix errors shown in Jenkins. This process increased the overall reusability of the code by 75%.
- Architected Database structure after analyzing a business catalog and providing Key-Value mapping relations between those tables. This process made the development phase easier since we would already have a clear idea of how to fulfill the catalog's requirements.
- Interacting with clients, understanding their requirements, getting the specifications, Base Technology (BT) issues cleared thereby possessing a distant vision in terms of quality development.

Junior Software Engineer (IVTL Infoview Technologies Pvt Ltd. – Chennai, Tamil Nadu, India) **June 2015 – July 2017**

- Implemented Elastic search indexing instead of Cassandra KVA in terms of Lazy load, Facet filter operation, hence avoiding latency and increasing the speed of operation by factor 2x.
- Developed a Java-based *Accounts Payable/Receivable Module* full-stack application which generates the invoice for the transactions made by the customer on a monthly basis. This application allows the client to close the deal, reconfirm the sales, print the invoice before the closing date.
- Developed a Java-based full-stack application which calculates the *Withholding Tax*, display in case of any calculation errors and generate a report in CSV, Excel format for the customer on an annual basis.
- Developed components for Intraweb tool that converts Pascal Application code to web-based HTML, JavaScript and stylesheets. The IW VCL Components were modified to CV Components driven by business requirements. This tool reduced manual effort by 90% in code conversion since only the UI/UX is changed and business logic remained unchanged.
- Organized business user training in Tokyo and communicated technical use cases of supply chain management with key business users.
- Worked in Agile methodology and providing customer support on an instant basis, with rapid bug fixing and unit test executed in production server for various launch versions.

ACADEMIC PROJECTS

Face Detection Implementation using Raspberry Pi – *Sastra University, India* **January 2015**

- Developed a face detection algorithm which uses *Eigen face detection* and *Haar Cascade Classifier technique* to match the trained samples of image with query image. This algorithm had an accuracy of 65% match and was later enhanced as a door security application.

Shape Detection and Region of Interest Filtering – *Sastra University, India* **May 2014**

- Implementation of various morphological techniques such as dilation, erosion to detect the exact shape of a particular object in an image. This article was published in *"World Applied Scopus Journal (WASJ)"* with Issue number 29. ***(Reference link: idosi.org/wasj/shapedetection)***

Access Control System (ACS) – *Sastra University, India* **January 2014**

- Developed a method for the School of Electrical and Electronics Engineering Department which allows the students maintain log time during class hours. It also allows the students to raise request for leave application and approval would be done by subsequent hierarchy levels.

AWARDS

- **'Emerging Potential Leader of 2017'** award for showcasing extensive leadership qualities, ability to value opinions and the aspiration to learn.