

## **Pavan Kumar Chilamakuri**

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GitHub: <https://github.com/pawanc027/pricer>

### **Professional Summary**

- Over 15+ years of hands-on experience in software product and platform creation.
- Involved in complete software development life cycle with emphasis on object-oriented design and development.
- Strong background in building scalable, low-latency and high-performance applications.
- Excellent analytical and problem-solving abilities with keen attention to detail.
- Experience working as hands-on technical lead and scrum master.
- Extensive experience in C, C++03/11/14/17/20, STL, Boost, Multithreading, TCP/IP, Linux and Oracle.
- Expertise in OO Design and multithreaded applications for Linux/Unix platforms.
- Experience in network programming using TCP/UDP/TLS/DTLS.
- Experience in designing and developing enterprise class systems with stringent availability, performance, and SLA requirements.
- Proactively identify potential problems and design solutions to mitigate risks.
- Take ownership of architectural decisions and contribute to the overall technical strategy of the project.
- Deep understanding of complex algorithms, data structures, OS and OOPS concepts.
- Experience with REST API design/development.
- Ability to tailor the message and effectively communicate technical complexity and tradeoffs to business partners.
- Ability to manage multiple tasks simultaneously and to identify and resolve project issues quickly and effectively.
- Strong communication, documentation, presentation, and inter-personal skills.
- Possess positive attitude to perform individually and succeed as a team.

### **Technical Skills**

C, C++03/11/14/17/20, STL, Boost, gRPC, Python, Java (Core), Golang, AWS, Multithreading, TCP/IP, IPC, Linux, Bash Scripting, OOAD, Design Patterns, Elasticsearch, Pro \*C/C++, Oracle, PL/SQL, Tuxedo, SOAP, XML, MQ series, Valgrind, Gprof, GDB. CMake, Git, JIRA, Rally, Jenkins, Confluence, Docker, and Kubernetes.

### **Education**

Bachelor of Engineering in Computer Science 2003 | GPA: 4.0  
Jawaharlal Nehru Technological University | Hyderabad India

**Work Authorization** H-1B with an approved I-140

## **Professional Experience**

**Principal Software Engineer | Leading Edge Solutions LLC@TNS Inc | Reston VA  
09/2021 – Till date**

### **Real Time Communication (RTC) and Signaling Data Engine (SDE)**

- Lead technical design, development, and implementation of new features for Real Time Communication (RTC) Platform to detect robocalls and caller ID spoofing and offer Enterprise Branded Calling using C++20, STL, Multithreading, TCP/IP, Python, Golang, AWS, Docker under Linux environment.
- Lead technical design, development, and implementation of new features for Signaling Data Engine to perform call routing and subscriber authentication services using C++20, STL, Multithreading, TCP/IP, Python, Golang, AWS, Docker under Linux environment.
- Take ownership of architectural decisions and contribute to the overall technical strategy of the project.
- Enhanced TAF and UTIL frameworks which are used across all TNS projects.
- Participate in System and feature design review and code review.
- Designed and implemented SDE and Single shot Simulators using Java (core) and C++20 under Linux environment.
- Designed and implemented the automated unit and regression tests for all the new features.
- Refactored and optimized existing code using Valgrind, Gprof and GDB.
- Enhance and maintain existing platform capabilities.

**Principal Software Engineer | Leading Edge Solutions LLC @SWIFT Inc | Manassas VA  
01/2019 – 08/2021**

### **T2S (TARGET2-Securities) –Securities Settlement Platform**

- Lead technical design, development and implementation of new features and enhancements for Target2-Securities ESMIG Gateway.
- Designed and developed the ESMIG Messaging System Gateway for securities platform using C++17, STL, Boost, Multithreading, XML, TCP/IP, MQ Series, Oracle, Docker under Linux environment.
- Participate in System and feature design review and code review.
- Take ownership of architectural decisions and contribute to the overall technical strategy of the project.
- Designed and developed T2S and SNF simulators to interact with ESMIG system using Java (core) and C++17 under Linux.
- Refactored and optimized existing code using Valgrind, Gprof and GDB.
- Enhance and maintain existing platform capabilities.

**Principal Software Engineer | Leading Edge Solutions LLC @PayPal Inc | San Jose CA  
06/2016 - 12/2018**

### **PayPal Fulfilment Engine**

- Designed and developed PayPal Payment Platform 2.1 stack for Bank and Card Funded Transactions from idea to deliver using C++14, STL, Boost, Multithreading, AWS, TCP/IP, gRPC, Oracle under Linux environment for
- Designed and developed RESTful APIs for New Merchant On-boarding flow, eBay Sell to Buy for Marketplace features using C++14, STL, Boost, Multithreading, AWS, TCP/IP, gRPC, Oracle under Linux environment.
- Design and developed the RESTful API's for STM Analytics database to store, refine and retrieve data using C++11 under P2.1 Payment stack.
- Participate in System and feature design review and code review.
- Refactored and optimized existing code using Valgrind, Gprof and GDB.
- Enhance and maintain existing product capabilities.

### **Lead Analyst | BA Continuum India Private Limited | Hyderabad INDIA**

**05/2015 - 05/2016**

**(Non-banking subsidiary of Bank of America Corporation)**

**Counterparty Portfolio Management (CPM).**

- Lead technical design, development, and implementation the Capital Value Adjustment feature for XVA Trading Platform using Python, DAG and Sandra DB under Quartz framework.
- Performed Model Validation for Capital Value Adjustment.
- Designed and developed regression framework for XVA Trading platform.
- Participate in System and feature design review and code review.
- Developed and developed various statistics and reconciliation reports using Python for fixed income and accounting group.

### **Senior Software Engineer | Motivity Labs Inc @Good Technology | Hyderabad INDIA**

**03/2013 - 05/2015**

**Good for Enterprise - Good Mobile Messaging**

- Lead technical design, development and implementation of new features and scope changes for Good Mobile Messaging server.
- Designed and developed encrypted email sync and recurring calendar event features using C++11, STL, Boost, Multithreading, TCP/IP, SQL Server under Windows environment.
- Participate in feature design review and code review.
- Enhance and maintain existing product capabilities.

### **Senior Subject Matter Expert | Amdocs Inc | Champaign IL**

**11/2006 - 02/2013**

**Sprint-Nextel Order Matching Engine**

**AT &T Mobility Ensemble CSM (Customer Service Management)**

- Involved in design, development and implementation of new features and scope changes for Sprint-Nextel Order Matching Engine.
- Designed and developed Sprint-Nextel Ordering Platform using C, C++03, STL, Boost, Multithreading, Pro\*C, TCP/IP, MQ Series, Tuxedo, Oracle under Linux environment.
- Designed and developed AT&T Ensemble CSM features using C, C++03, STL, Boost, Multithreading, Pro\*C, TCP/IP, MQ Series, Tuxedo, Oracle under Linux environment.
- Participate in feature design review and code review.
- Refactored and optimized existing code using Valgrind, Gprof and GDB.
- Enhance and maintain existing product capabilities.

**Programmer Analyst | Cognizant Technology Solutions | Hyderabad INDIA.**  
**05/2004 - 10/2006**

**Orange NMS Migration**

- Involved in design, development and implementation of C++ compiler upgrade and Solaris OS upgrade for NMS Provisioning Application.
- Developed automated regression test cases, simulators and utility functions using C, C++, STL, Boost, Multithreading, Pro\*C, TCP/IP, Oracle under Solaris environment.
- Enhance and maintain existing product capabilities.