Panduranga Rao Sadhu

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9 years of Full Stack development experience spanning across technologies including Python, Erlang, C++ and Flutter with specialization in Design, Algorithms and Data Structures.

Work Experience

Software Engineer III, Cisco Systems Pvt. Ltd. (August 2015 – Present)
Software Engineer II, KLA-Tencor Software India Pvt. Ltd. (June 2011 – August 2015)

Technical Skills

Languages: Python, Erlang, Dart, C++, C#
Databases: MSSQL, Mnesia, Firebase
Frameworks: Flutter, OTP, REST
Platforms & Tools: Visual Studio Code, GIT, Bitbucket, JIRA, Eclipse
Operating Systems: Linux, Windows

Projects

Cisco, Bangalore (June 2017 – Present)

Cisco's Expressway is an edge device which enables remote, single sign-on access to all collaboration workloads for mobile users and teleworkers without the need of a VPN client.

Accomplishments:

- Led a team of three to deliver multiple futuristic features for Expressway from end to end
- Developed a load balancer using iptables that enabled Expressway to handle six times more traffic
- Responsible for Clustering and Database module of Expressway
- Fixed several critical customer facing defects that made Expressway more secure, reliable and fault tolerant
- Created a Proof of Concept for Telemetry in customer labs which was later productized
- Involved in automated dead system recovery tool that helped save massive amounts of time in recovering dead systems

Cisco, Chennai (August 2015 – June 2017)

Cisco's DCM (Digital Content Manager) is an extremely dense, future-friendly multiplexer/ video processing platform that can launch and manage digital services, current and future, while giving freedom and flexibility for operational needs.
I worked in the core GUI team for DCM that delivered GUI features supporting DCM to launch latest digital services. I developed modules using web technologies like Python, JavaScript, and HTML.

KLA-Tencor (June 2011 – August 2015)

KLA-Tencor's Aleris family of metrology tools provide reliable and precise measurement of film thickness, refractive index and stress helping fabs to qualify and monitor a broad range of film layers.

Accomplishments:

- Owned key spectral Precision Algorithms that are run from time to time to calibrate the tools for precision and accuracy
- Wrote a Correlation Card Management System that manages library cards and supports custom operations on those cards
- Designed a Custom Installation Software to install our full stack of Common Film Spectroscopy software that reduced the installation time by 80%
- Created an extension to a licensing module to enable tools for higher throughput
- Developed applications to modify existing SQL database to support backward compatibility
- Involved in the refactoring of code to move Native Code to Managed (C++, C++/ CLI)
- Supported customer escalations for SAMSUNG, Intel, TSMC and other leading semi-conductor manufacturers

Educational Qualifications

M. Tech. (Computer Science, 2009 - 2011) – Sri Sathya Sai University, Andhra Pradesh
M. Sc. (Mathematics with Specialization in Computer Science, 2007 - 2009) – Sri Sathya Sai University, Andhra Pradesh
B. Sc. (Honors in Mathematics, 2004 - 2007) – Sri Sathya Sai University, Andhra Pradesh

Achievements/ Awards

- Awarded '**You Inspire 2**', '**You Inspire 3**' and '**You Amaze 2**' by Cisco for delivering multiple features with critical deadlines in Expressway, DCM and vDCM projects
- Awarded '**High Performance Team'** by KLA-Tencor for Penetration of Spectra Shape Tools in Samsung
- Awarded **'Bravo Award'** by KLA-Tencor for meeting a critical customer deadline that helped the company to win a head-to-head with its competitor
- Achieved a GATE percentile of 98.13 (Computer Science) and secured all India rank of 775, in March 2009