Poornima Rathinavel

Software Engineer

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Inquisitive and methodical devops professional with 3 years of experience in build and release, devops, continuous integration and continuous delivery (CI/CD), source code management tools, Jenkins and python.

Experience:

July 2018 - July 2020 | Junior Software Engineer
July 2020 - Present | Software Engineer
Static code analysis and Continuous integration service lines
Valeo India Private Limited

- Static code analysis of embedded C and C++ projects using polyspace code prover tool and report generation.
- Creation and management of projects in teamforge using source code management tools (git, svn).
- Handling tickets for the service line in JIRA.
- Implementation of the build stage (compilation) of projects using various compilers (ghs, gcc, hightec tricore, windriver)in continuous integration, parse the result of compilation and update the dashboard.
- Implementation of Static code analysis using klocwork in continuous integration, generate reports, parse the result of compilation and update the dashboard.
- Implementation of unit tests in continuous integration using vectorcast and IBM RTRT softwares, generate reports, parse the result of compilation, update the dashboard. ● Implementation of integration and validation tests in continuous integration using vectorcast, castle, ecu test generate reports, parse the result of compilation and update the dashboard. ● Develop scripts using python, batch and shell to manage json, cvv files in Jenkins pipelines for continuous integration.

Technical skills:

- **Languages:** Python, C, C++, GIT bash and SVN repo handling commands, Javascript,

batch, shell, HTML, SQL, java(beginner), json and cvv files handling.

- **Tools:** Jira, Teamforge, Git, Jenkins, Sonatype nexus, Microsoft office, Python IDLE, Eclipse, Polyspace, Klocwork, EcuTest studio, Vectorcast, IBM RTRT, MS Access, Visual Basic, SQLiteStudio, MySQL, NetBeans.
- **Methodologies:** Agile, Devops, V cycle

Academic projects:

- **Design and development of a deep learning based Automated Attendance Systems** An automated attendance system which uses facial detection and recognition developed using machine learning and deep learning algorithms, python, SQL, matlab.
- **Hotel Room Booking System:** An application that can be used by consumers for booking, cancelling and paying for rooms in a hotel using Java(NetBeans) and MS Access. ● **Billing System:** An application that can be used by wholesale and retail businesses for generating bills using Visual Basic and MySQL.
  - **Event Registration system:** An android application that can be used by both event organizers and participants for registering for various events and seat allocation.

Workplace R&D projects:

- **Team Effort and project delivery tracking:** Automation done using javascript and google sheets (apps script) which gets input from the engineers through a google sheet and automatically updates and tracks project related details in different sheets for management projection. This reduces manual time and effort.
- **Automated CI script generator:** A tool developed using python which gets input from the user through tkinter GUI and generates json files and scripts needed for CI deployment. This helps the CI engineers to reduce script development efforts and debugging human error efforts.
- **Integrating Polyspace in CI:** Polyspace code analysis was integrated in continuous integration of projects which reduced overall effort for project releases by automating Polyspace code analysis using polyspace code prover application and Jenkins. Analysis will be automatically triggered for every release and reports will be generated.
- **Chat bot for CI customers:** A chat bot was developed to guide users to identify and do first level analysis of CI bugs. This facilitates the project team to identify common issues and resolve them without waiting for CI engineers' support thereby reducing blockage time.

Workshops and trainings:

- **Jenkins training** (5 days)

● **Android app development workshop** (4 days) conducted by Star Works, Bangalore. ● **Java training programme** (10 days) conducted by HCL, Chennai.

Education:

● **Bachelor of Engineering [August 2014 - May 2018]**

PSG Institute of Technology and Applied Research, Coimbatore

Computer Science - 7.45 CGPA

● **HSCC**

SBOA Matric. & Hr. Sec. School, Madurai

Percentage: 95.58

● **SSLC**

SBOA Matric. & Hr. Sec. School, Madurai

Percentage: 94