

Chaitanya Dwivedi

LinkedIn | chait.dwivedi@gmail.com | 617-435-5467 | Austin, Texas

Experience

Senior Software Engineer, Arm

July 2015-present, Austin TX

- End-to-end development of command line tools.
- Development, management and support of CI/CD framework on Jenkins.

Projects

- Developing a tool using Groovy and Python to generate Scripted Jenkins Pipelines from text configuration using Shared Libraries to abstract the pipeline build process from the user.
- Developed Machine Readable Specification for Directory Structures in YAML to validate given specification against deliverable IP.
- Wrote a tool to simplify and streamline deliverables review checklists by developing conditional reviews in markdown
 - Extended markdown parsers to include programmable constructs
 - Related reviews formed a dependency graph that was resolved to only show users reviews that pertain to their current stage/project.
 - Developed GUI using PyQt5
- Developed a framework to run a suite of scripts on products to be delivered. Used for out-of-box testing scripts and validation checks.
 - Used **Dask** for backend LSF integration over HPC cluster
- Wrote multiple tools using Arm's Progenesis engine (geometry manipulation) to
 - Automate Standard Cell layout generation for 7nm and 10nm platforms
 - Automate transformation of logic and memory architecture of Standard Cells
 - Place layout design hierarchically, for entire process library.

Technical Intern, Synopsys

May 2014-Dec 2014, Durham NC

- Developed a tool using PXL (OOP) to generate Electrical Rule Checks from customer specifications
- Developed macros to view point to point parasitic resistance of metals in layout viewer.

Associate Software Engineer, Accenture

Oct 2012-Jul 2013, Bangalore India

- Developed CRM application components in an Agile environment.

Skills

Python, Groovy, Jenkins, Git, Shell

Education

M.S. in Computer Engineering, North Carolina State University, 3.8/4.0 GPA, May 2015

B.Tech. in ECE, Jaypee Institute of Information Technology, 8.6/10.0 GPA, May 2012