PRASHAKAR PRABAGARAN

SOFTWARE ENGINEER

PROFILE

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SKILLS OVERVIEW

- Python
- TCL Scripting
- Java
- PHP
- C
- Perl
- C++
- Shell/Bash
- Linux
- Windows/MacOS
- Virtualization
- Database (DBMS)
- Android
- JS Frameworks
- CSS Frameworks
- NI LabView
- Apache
- Git/GitHub
- Slack
- Office/Google
- SAP

EDUCATION

Bachelor of Engineering - Software — **Sept 2012 - Apr 2017**
University of Ontario Institute of Technology (UOIT) — Oshawa, CA

EXPERIENCE

Test Development Engineering Associate — **May 2015 - Aug 2016**
Celestica - Engineering Services — Toronto, CA

- Developed TCL scripts to automate testing in a fast-paced manufacturing environment
- Debugged critical manufacturing issues by using failure analysis methodologies
- Developed various Python data analysis tools to collect & aggregate test data
- Recognized for designing intuitive web interfaces using front-end tools (JS, CSS & HTML frameworks)
- Integrated and developed back-end services using Python, PHP and mySQL
- Implemented hardware solutions from procurement to integration and qualification
- Frequent international travel to customer site to support failure analysis processes & develop data collection software

Computer Technician (Co-op) — **July - Aug 2010**
The Harbourfront Centre - IT Department — Toronto, CA

- Installed and setup various computers, monitors and equipment
- Data restoration and hard drive cloning
- Updated company wide computer hardware/software

PROJECTS

Axle Monitoring System (Capstone)
Raspberry Pi, sensors, i2c, Python, DBMS, VANET & Linux

- Designed and implemented a monitoring system to provide critical data to the vehicle operator and dispatch
- Improves road safety by detecting component end-of-life
- Mounted vibration sensors to ball joints of a self steering axle interfaced with a Raspberry Pi to transmit data to a central database
- Interdisciplinary project involving hardware and software integration

Project HuHy
Web, DBMS & Linux

- Developed an intuitive web application designed for students to seamlessly and effortlessly get assistance, view information and report incidents around campus
- Social media data scraping, weather pattern analysis and Google Maps API integration

Unit Sync
Python, virtualization & Linux

- Built a distributed application designed to sync files real-time across Linux platforms
- Explored issues, trade-offs and opportunities in terms of performance, stability and complexity of distributed system design

MusicBase
DBMS, Web, Linux & Windows

- Web & database development that consisted of a project proposal, schema diagram, web implementation & final report
- Applied fundamental database concepts such as database modelling, design and implemented relational databases