LEVI STARRETT
SOFTWARE ENGINEER

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Education

Purdue University

Bachelor of Science in Computer Science   December 2016
focus in Systems and Software Engineering

Skills

Technical

- **C:** Strong background in writing system level and embedded applications in C. Implemented a specialized FTP server for Qualcomm modems. Exerience working with C++. Experience writing embedded applications for Raspberry Pi, Arduino, LEGO EV3 and others.
- **Build tools:** Experience with Maven, Make, and Ant. Some experience with CMake.
- **Compilers:** Comprehensive experience in compilers and programming language design. Built a model compiler to generate Java from xtUML models.
- **Operating systems:** Experience with several different operating systems including Windows and Unix systems. Some experience with other hardware specific real time operating systems.
- **Version Control:** Experience with git, subversion, and perforce in real software teams, and familiar with online source hosting such as Github and Bitbucket.
- **Java:** Firm understanding of object oriented programming in Java.
- **Python:** Experience using Python for scripting applications. Some experience building web applications in Python using the Flask microframework.
- **Amazon Web Services:** Knowledge of AWS services such as EC2, S3, DynamoDB, Lambda, and others and experience using them in production applications.
- **SQL:** Practical experience using relational databases in applications.
- **Team tools:** Used Hangouts, JIRA, git, subversion, Skype, Redmine, Join.me, Google Drive, and Outlook in real world employment environments.
- **xtUML:** Knowledge and experience in the Shlaer-Mellor method of systems analysis. Background in building and debugging applications in xtUML.
- **BridgePoint:** Deep understanding of the BridgePoint xtUML modeling editor, verifier and model compilers.

Leadership

- Engineering project lead at One Fact (Project Primus)
  - *Drove requirements specification, prototyping and proposals*
  - *Performed in depth analysis and provided sizing estimates for work contract*
  - *Designed and implemented features and test cases to satify the requirements specification*
  - *Worked on a delivery schedule and communicated with customers*
- Undergrad Lecturer for Purdue CS190 Tools course
  - *Primary lecturer for CS190 Tools at Purdue University (Fall 2015). 400+ students*
  - *Cover topics such as linux, bash, vim, git, eclipse, debugging, etc*
  - *Developed much of the course material including labs, lecture slides, and demos*
- Undergraduate Student Board of Computer Science (Purdue University)
  - *Member Spring 2015 - December 2016*
  - *Organize events, programs for student success, manage tutoring services, work with corporate partners, academic advisors, and recruiters*

Experience

Employment

One Fact, Inc (onefact.net)   Lafayette, IN January 2016 - present
Chief Software Architect

- Lead the One Fact engineering team working on the BridgePoint xtUML tool
- Testing and developing features in model compilers and editor
- Building specialized model compilers for MASL conversion and export

Qualcomm Technologies, Inc (qualcomm.com)   Boulder, CO May 2015 - August 2015
Interim Engineering Intern

- Worked for modem data services on the protocols team
- Implemented a specialized FTP server for testing data throughputs on various interfaces
- Worked extensively in testing on target builds running Android

Tavel/Academic

- Two time presenter at the xtUML Days modeling conference (2017 Linköping, Sweden; 2018 Copenhagen, Denmark)
- Presented a technology demo at the 2018 MODELS conference in Copenhagen, Denmark
- Delivered a software training course twice in Cheltenham, UK (2016, 2017)

Projects

- ciera model compiler
  - *Working on a model compiler to generate Java for xtUML application models*
  - *Used to generate an application deployable to AWS*
  - *Compiler is built with itself*
- Arduino/RPi GPS Watch example
  - *Ported an xtUML application to run on both Raspberry Pi and Arduino with identical hardware*
- BridgePoint
  - *Core contributor to the BridgePoint project*

References

Available on request.