Carl Johnell - CV

cjohnell@gmail.com :: carljohnell.com

Summary

CS MSc student at Chalmers. Previously worked as a software developer for 2.5 years, after having completed a BSc in Software Engineering at BTH. I am experienced in: high- and low-level programming, client- and server-side, as well as the complete software development process.

Education

MSc in Computer Science, Chalmers University of Technology
September 2018 - Present

Courses in mathematics, Lund University
January 2018 - June 2018

BSc in Software Engineering, Blekinge Institute of Technology
September 2012 - June 2015

Work Experience

Software Developer, Compuverde
August 2015 - January 2018, Karlskrona, SE

Designed, implemented & improved several features in the Software Defined Storage (SDS) product. Main development was in C++; various test and utility scripts were in Python. I learned a lot about storage, virtualization, multitude of different networking protocols, multithreading, server programming, and more.

Some of my contributions:
- Worked on the implementation of several different networking protocols: Kerberos, LDAP, NFS, NNTP, NTLM, RPCSEC_GSS.
- Implemented an Amazon S3 server compatible with a subset of the official API.
- Created a driver for OpenStack Block Storage (Cinder).
- Developed a REST API for easier management and administration of a storage cluster.
- Extended the system's networking capabilities in order to allow for more adaptable configuration options. This made it easier for customers to integrate the system to their existing networking environment.
- Improved the main build script which reduced the compilation time of incremental debug builds by 90%.

Summer Internship, Ericsson
June 2015 - August 2015, Karlskrona, SE

In a group, developed an internal tool that's used to compose and visualize different use cases supported by Ericsson Charging System. The tool was a web application that was installed and run locally on a user's computer, and I was responsible for the Java server implementation and many of the technical decisions.

Software Developer, Malvacom
June 2014 - December 2014, Karlskrona, SE

Part-time work during studies. Android development and Python web development.

Skills

Programming languages: C, C++, Go, Java, Javascript, Python
Technologies: Docker, Git, HTML5/CSS3, Linux/Unix, LLVM, SQL

Personal Projects

Dingo, github.com/cjo5/dingo

Compiler for a C-like programming language with easy interop from and to C. Statically typed and compiles to LLVM. Support for basic C features, defer, slices & modules. Written in Go.