

MATTHEW C. PETTERSSON

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OBJECTIVE

Software Engineer with 7 years working experience, seeking to join an innovative company with excellent culture.

TECHNICAL SKILLS

Languages: Java and Python.

Tools: Docker, Git, Gradle, JIRA, Jenkins, Linux, Mac, Rally, Unix, VMware, Vim, and Windows.

Miscellaneous: Agile Software Development, Distributed Sys, NoSQL, OOP, REST, Scrum, UML, and XML.

EMPLOYMENT

Sabbatical, Shanghai, China **Aug. 2018 – Nov. 2019**

- Traveled in China, Hong Kong, Macau, Cambodia, Indonesia, S. Korea, and Thailand.
- Studied Mandarin Chinese.

Software Engineer III, Cisco Systems, Richardson, TX **May 2014 – Oct. 2017**

- Developed a machine learning (ML) log analysis tool to reduce triage time for *Cisco Unified Call Manager* (CUCM) JIRAs, written in Python and Java, containerized via Docker.
- Implemented D-Bus, an inter-process communication (IPC) and remote procedure call (RPC) mechanism, for the Cisco internal *Test Next Generation Python* (TNGpi) framework, in Twisted Python.
- Contributed to the Java based D-Bus interface on the Cisco 8800 Series IP Phones.
- Created an augmented reality (AR) mobile application proof of concept (POC), for Android and iOS, using C# and the Unity engine, and provided technical feasibility assessments to the management team.
- Enhanced, maintained, and documented a Spring Framework, JavaScript, handlebars, and MySQL web app for the coordination and management of external firmware and documentation releases.
- Lead developer on a Java based, Cisco internal, *Intelligent Performance Automated Framework* (IPAF); a framework for scalability and performance related development of the CUCM.

Software Engineer II, Cisco Systems, Richardson, TX **Mar. 2013 – May 2014**

- Built a user-friendly call generator GUI tool, in Java, for CUCM evaluation and performance tuning.
- Developed a JSON based config API for IPAF, which improved efficiency and enhanced user experience.
- Wrote Python, TCL, Bash, and Expect scripts to create and control A/V traffic for the CUCM.

Intern, Cisco Systems, Richardson, TX **Sept. 2010 – Mar. 2013**

- Configured lab and dev servers, networks, network storage, and VPNs, on physical and Wi-Fi networks.
- Perl and Bash scripting for Cisco UC320W call automation.
- Tested Cisco small business embedded Linux devices such as the Cisco UC320W, SG500 switches, NSS300 NAS, SPA300 and SPA500 Series IP Phones.

EDUCATION

Master of Science in Computer Science **Dec. 2013**

University of Texas at Dallas, Richardson, TX

Bachelor of Science in Computer Science **Dec. 2011**

University of Texas at Dallas, Richardson, TX

PROJECTS

mpettersson.com - A personal website focusing on family, programming, and CS.

github.com/mpettersson - Public repos, ranging from past school projects to recent endeavors.