James Chang

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Employment

Software Engineer, Release and Tools Square, Inc.

Oct. 2015 - Present

- Open sourced git-fastclone, a tool that significantly reduces the time of repeated git clones.
- Implemented monitoring for proprietary, mobile, and hardware Jenkins instances, reducing weekly oncall frustration.
- Participated in weekly oncall rotation.

Software Engineer, Solaris Userland

Oracle Corp.

Jan. 2015 - Oct. 2015

- Prototyped a script that cut internal build times by up to 90% with a build dependency graph approach.
- Integrated an rsyslog package upgrade to replace the legacy system logger.
- Added automated regression testing for 30 Solaris packages.

Engineering Intern

Industrial Toys

Summer 2014

Analyzed user metrics to determine player habits using MongoDB and Python.

Teaching Assistant

The Summer Science Program

Jan. 2015 - Oct. 2015

- Mentored 36 aspiring scientists and engineers, supervised Python laboratory sessions, and operated telescopes.
- Helped students design and implement orbit determination projects.

Projects

- **Git-fastclone** A tool that reduces the time of repeated git clones by as much as 90% while optimizing for submodules. Ruby.
- **Robotrike** Robotic car system, including motors, serial transmission, keypad, display multiplexing, data structures, parsing, and main loops. x86 assembly.
- Weighted Markov Generator Text generator taking multiple input sources with ability to specify which source the generated text is most similar to. Python.

Education

California Institute of Technology, B.S. Computer Science, graduated Jan. 2015

- President of Avery House (200 undergrads).
- Databases, Machine Learning, Computing Systems, Graphics, Data Privacy, Neural Computation, GPU Programming, Microprocessor Systems, Product Design.

Coursera

• Machine Learning (Stanford University).

Recent Tools

- Languages and tools: Python, Ruby, C++, Java, MySQL, Jenkins, Unix
- AWS: S3, Elastic Beanstalk
- Version control: Mercurial, Git