Chuan Shi

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https://github.com/chuanshi

EDUCATION

Ph.D., Chemical Engineering   September 2010 - October 2015
Stanford University, Stanford, CA

B.S., Chemical Engineering   August 2007 - May 2010
The University of Texas at Austin, Austin, TX

TECHNOLOGY SKILLS

Programming Languages: Proficient: Python. Familiar: Lua, JavaScript, SQL, C, MATLAB, Bash.
Software: GNU/Linux, Git, Vim, Emacs, LaTeX, Pandas, Flask, SQLAlchemy

EXPERIENCE

Postdoctoral Scholar   October 2015 - April 2016
SUNCAT Center for Interface Science and Catalysis
Stanford University, Stanford, CA

- Expanded continuous integration testing of CatMAP open source project to encompass all previously-undocumented features. `https://github.com/chuanshi/catmap`
- Mentored graduate students by helping them implement new features in CatMAP and ase-espresso

Research Assistant   March 2011 - October 2015
SUNCAT Center for Interface Science and Catalysis

- Performed density functional theory calculations using our supercomputing cluster at SLAC to better understand electrochemical CO_2 reduction
- Analyzed and performed tens of thousands of calculations through Python and Bash scripting.
- Published 6 peer-reviewed journal articles on CO_2 reduction.

PERSONAL PROJECTS

sgre, *Programmer*   July 2012 - Present

- When English servers of this Flash-based Korean online card game shut down, a team of fans recreated the game as an open source project. `https://github.com/chuanshi/sgre`
- Responsible for some card implementations, background music, user interface, server, and Flash client reverse engineering on a small team of contributors.
- 16,000 registered accounts and 100 monthly active players at swordgirls.net

SaltyELO, October 2013

- Project to automatically retrieve and store match data for saltybet.com `https://github.com/chuanshi/salty_elo`
- Capture streaming video data, process images, OCR text, and maintain a database of fighters and their calculated strength automatically. Successfully identifying over 90% of fighters.

Other Accomplishments

2010 World Series of Poker Event #47 - 4th Place