

Felix Tiet

ftiet21@gmail.com | ftiet.com | github.com/ftiet | linkedin.com/in/ftiet

Education

Vanderbilt University

B.S., Computer Science & B.E., Chemical Engineering

Nashville, TN

Expected: May 2019

Work Experience

Vanderbilt Multiscale Modeling and Simulation Research Facility

Undergraduate Research Assistant

Nashville, TN

May 2016 - Present

- Investigate energy storage systems and ionic liquids through Molecular Dynamics simulations
- Build and analyze 200+ new simulations using software packages such as GROMACS and VMD
- Develop and optimize 10+ Python scripts to automate MD simulations and analysis
- Add support for new forcefields and parameters to current software packages and test to ensure compatibility with package dependency updates

Amazon

Software Development Engineer Intern

Sunnyvale, CA

May 2018 - July 2018

- Implemented and tested several new VUI features for Alexa Entertainment platform using Java
- Developed and launched new poll experience skill using Java, Python, and DynamoDB, reaching 2000+ weekly active Alexa users around the US

Projects

Solitaire Card Game (Web Development)

December 2017

- Built frontend UI with React.js and implemented backend with Node.js, Express.js, and MongoDB
- Implemented user profile allowing viewing of results and previous games

Deployment and Orchestration Infrastructure (Operating Systems)

April 2017

- Developed a TCP server written in C++ that communicated with multiple client nodes, allowing installation and configuration of multi-process applications
- Supported operations such as copying, moving, and running executables on client nodes. The user can also obtain resource usage and process state queries

Skills

Advanced: Java, Python, C++, Bash/UNIX, Git

Familiar: JavaScript, React.js, Node.js, React Native, HTML, CSS, Clojure

Leadership

VandyHacks

Director of Communications

Nashville, TN

Spring 2016 - Present

- Establish and maintain connections with 15+ schools and hackathons
- Lead 7-person marketing team to publicize VandyHacks to 10,000+ students and mentors nationwide
- Oversee marketing campaigns bringing over 400 students a year to VandyHacks

Publications

- Osti, N. C., Dyatkin, B., Thompson, M. W., **Tiet, F.**, Zhang, P., Dai, S., ... & Mamontov, E. (2017). Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. *Physical Review Materials*, 1(3), 035402.
- Osti, N. C., Van Aken, K. L., Thompson, M. W., **Tiet, F.**, Jiang, D., Cummings, P. T., Gogotsi, Y., Mamontov, E. (2016) Solvent Polarity Governs Ion Interactions and Transport in a Solvated Room-Temperature Ionic Liquid. *J. Phys. Chem. Lett.*, 2017, 8(1), 167–171