

Theodore “Tres” R. Popp III

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EXPERIENCE

- MAY 2015- AUG. 2015 **Software Engineering Intern at DROPBOX** San Francisco, CA
Back End Product Engineer
Designed and Implemented Python based systems for the *Recents* feature as one of 3 engineers, structured to work across different data-stores and for different platforms. Participated in product and system architecture discussions for existing and new products, improved server performance for heavily used Dropbox features, ran security discussions in creation of new forms of data passing, and mentored new employees. Made modifications to the React based front-end during addition of features to the news feed.
- MAY 2014- AUG. 2014 **Software Engineering Intern at BEBOP** San Francisco, CA
V8 and Back End
Identified bottle necks in a distributed system through custom, automated routines that performed load testing and benchmarking. Implemented time critical C++ routines to interface with the v8 JavaScript engine. Made additions to the build system, added code generation for dynamic templates, and implemented a non-deterministic cache.
- JAN. 2014- DEC. 2014 **Undergraduate Research Assistant at THE UNIVERSITY OF TEXAS AT AUSTIN** Austin, TX
Computational Fluid Modeling
Developed software for graduate level statistical mechanics classes and experimentalists to analyze structural and thermodynamic properties of fluids. Required implementation of high level calculations, a GUI, and an automated build and licensing system to be run by non-technical users.
- DEC. 2013- APRIL 2015 **Test Creator at THE UNIVERSITY OF TEXAS AT AUSTIN** Austin, TX
UIL Computer Science
Composed problem descriptions, test cases, Java based solutions, and explanations for high school programming competitions with a team of volunteers. Tested problems for correctness and implemented changes upon request of supervisors. This evolved into running ICPC contests for UT students using personally developed software and problem sets.

ACADEMIA

- MAY 2016 **B.S. in Turing Scholars Honors Computer Science** Austin, TX
CLASSES: Operating Systems, Algorithms and Complexity, Data Structures, Artificial Intelligence, Programming Languages, Big Data, Machine Learning, Distributed Systems
GPA: 3.97
- AUG. 2014 T. R. Popp III, K. B. Hollingshead, and T. M. Truskett. “Theory-based web applet for predicting structure and thermodynamics of complex fluids.” *Am J Phys*

ACTIVITIES

- SOCIAL HEALTH CARE WEBSITE - A website with hopes of improving knowledge of best medical care options
ACM ICPC - Competed in the ACM ICPC Regionals for two years
HACK RICE - *Owl Planner*: A website that improves the course selection process for Rice students
HACKTX - *Caption That*: A mobile app that takes pictures, associates sounds with objects, and shares them with friends
HACKTX - *BubbleDone*: A cross-platform app todo list aimed at a more natural understanding of task importance

SKILLS AND PROFICIENCIES

Java, Go, C/C++ Performance Testing/Analysis Linux Standard Tools, SQL Basics
Matlab, Python, Bash JavaScript Fullstack (ReactJS, NodeJS) Microsoft Office Suite, \LaTeX

Projects and references available upon request.