

NATHAN TINDALL

CONTACT

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EDUCATION

STANFORD UNIVERSITY

BS IN SYMBOLIC SYSTEMS
MS IN COMPUTER SCIENCE
Expected 2017 | Stanford, CA
Cum. GPA: 3.94 / 4.0

COURSEWORK

CS

103: Computability & Complexity
107: Computer Organization
109: Probability
110: Systems Principles
140: Operating Systems
144: Networking Principles
147: Human Computer Interaction
155: Computer & Network Security
161: Algorithmic Design & Analysis
221: Artificial Intelligence
240: Advanced Topics in OS
242: Programming Languages
240H: Functional Systems in Haskell
244: Advanced Networking Topics
245: Database Principles
255: Cryptography

OTHER

Semantics & Pragmatics • Linear Algebra • Mechanics • Cognitive Neuroscience & Development
Music Theory • Computer Generated Sound • SLOrk

SKILLS

PROGRAMMING

Java • C • C++ • Haskell • \LaTeX
Javascript • Python • Chuck

INTERESTS

Music Composition • Sustainable Food • Being Active • Piano • A Song of Ice and Fire • Functional Programming

WORK EXPERIENCE

BLEND LABS SOFTWARE ENGINEERING INTERN

June 2016 - Present | San Francisco, CA

- Building a platform for better lending; full stack development on MEAN (MongoDB, Express, AngularJS, Node.js)

COMPUTER SCIENCE DEPARTMENT CS 107 TEACHING ASSISTANT

March 2016 - June 2016 | Stanford, CA

- Teach sections of CS 107 (intermediate systems programming)
- Maintain general-purpose office hours; grade assignments.

CS 198 CS 106A/B SECTION LEADER

September 2015 - March 2016 | Stanford, CA

- Assisted with the introductory programming class at Stanford University by teaching a small, 10-12 student section once a week.

RELATEIQ BACKEND / SYSTEMS ENGINEER, INTERN

June 2015 - August 2015 | Palo Alto, CA

- Worked to improve suggested followups, including architectural changes to Apache Storm required to support high volume of users.

STANFORD RESED KAIROS KITCHEN MANAGER

September 2014 - June 2016 | Stanford, CA

- Member of student staff team charged with the day-to-day operations and community building of **Kairos**, a student-housing cooperative on campus.

RESEARCH

DEPARTMENT OF SYMBOLIC SYSTEMS RESEARCH ASSISTANT

June 2014 - June 2015 | Stanford, CA

- Worked with **Todd Davies** investigating differences in participation patterns in online and offline media among racial and gender subgroups.

PROJECTS

NOMADIC HUES AUDIO VISUAL COMPOSITION

Spring 2015-2016 | Stanford Laptop Orchestra | Bing Concert Hall Spring 2016

- Designed / implemented an interactive visual world where performers use their laptop to control a player capable of producing sound.
- Networked bidirectional server-client architecture implemented in Chuck.
- <https://github.com/ntindall/CS170/tree/master/nameless>

AERGIA HASKELL DISTRIBUTED KEY VALUE STORE

Winter 2015-2016 | CS 240H final project | Haskell | Team of 3

- Haskell implementation of a distributed in-memory database running on a single coordinating (master) server and any number of worker nodes.
- <https://github.com/ntindall/KVStore>

POETWRITER A CONSTRAINT BASED NOVEL TEXT GENERATOR

Autumn 2014-2015 | CS 221 final project | Python | Team of 3

- Performs backtracking search over n -gram model, propagating constraints forward as partial solutions are found.
- <https://github.com/ntindall/poetwriter>

GAEITIES 2014 & GAEITIES 2015 COMPOSER AND LYRICIST

November 2014, 2015 | Performed in Memorial Auditorium