Nathan Tindall

531 Lasuen Mall P.O. Box 15841 Stanford, CA 94309
ntindall@stanford.edu | 650.605.7070

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

SKILLS

PROGRAMMING
Java • C • C++ • Haskell
Python • SQL • ChucK • LaTeX

INTERESTS

Baking Bread • Sustainable Food
Clarinet • Running • Piano
Music Composition • Indie Music
A Song of Ice and Fire

WORK EXPERIENCE

COMPUTER SCIENCE DEPARTMENT   CS 107 Teaching Assistant
March 2015 - Present | 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
- Experience building scalable distributed systems using Storm, Kafka, Cassandra, Mongo, Hadoop, and Redis.
- Worked to improve suggested followups, including architectural changes to required to support high volume of users.

STANFORD RESED   Kairos Kitchen Manager
September 2014 - Present | 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 mediums among racial and gender subgroups.
- Presentation of research at the 65th Annual Conference of the International Communication Association (ICA) and the 7th International Conference on Electronic Participation (ePart 2015).

PROJECTS

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