

# Nathan Tindall

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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 • L<sup>A</sup>T<sub>E</sub>X

Javascript • Python • Chuck

## INTERESTS

Baking Bread • Sustainable Food

Clarinet • Running • Piano

Music Composition • Indie Music

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 stack (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

- 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 - 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

### 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