

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

SKILLS

PROGRAMMING

Java • C • C++ • Haskell

Python • SQL • Chuck • L^AT_EX

INTERESTS

Baking Bread • Sustainable Food

Clarinet • Running • Piano

Music Composition • Indie Music

A Song of Ice and Fire

WORK EXPERIENCE

CS 198 CS 106A/B SECTION LEADER

September 2015 - Present | 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.
- Changes resulted in reduction of reads reads in the followup generation topology by 80%.

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).

MOFFITT CANCER CENTER RESEARCH INTERN, DRUG DISCOVERY

June 2013 - September 2013 | Tampa, FL

- Worked with the Lawrence Labs to develop ACK1 inhibitors. ACK1 has been found to be overexpressed in numerous human tumor cell lines and has been found to stimulate prostate tumorigenesis.

PROJECTS

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

- 23 minutes of original music, orchestrated for pit ensemble.