

# Nick Tikhonov

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## EDUCATION

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### University of St Andrews

September 2013 - Present

*B.Sc. in Computer Science (graduating in 2017)*

*St Andrews, Scotland*

- 1st class progress, Deans' List award attained in 2015, 2016
- Scored top 3 in data structures and algorithms module, achieved two perfect coursework marks
- Competed in 17 hackathons in UK and Canada, winning prizes at 10
- Doubled computing society membership each year for 2 years as committee member
- Founder and lead organiser of StacsHack - hackathon attended by 140 students from around the UK
- Given talks and written blog posts on technical topics as GitHub Campus Expert

## EXPERIENCE

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### GitHub

June 2016 - August 2016

*Education Intern*

*San Francisco, CA*

- Wrote a desktop extension app for an open-source coursework management tool used by teachers
- Implemented greenfield project architecture in JavaScript ES6, NodeJS, Electron, React and Redux
- Wrote a technical blog post on company blog, which attained the top spot on HackerNews on Aug 22
- Organized a hackathon for 100 student developers in San Francisco, focused on learning and mentorship.

### Amazon

June 2015 - September 2015

*Software Development Engineering Intern*

*London, UK*

- Designed and developed an asynchronous, distributed service for removing duplicate catalog items
- Implemented from scratch using Java 8, Spring, Google Guava paired with in-house frameworks
- Gained experience in industry standard tooling for version control, testing and continuous deployment

### Department of Engineering, University of Cambridge

July 2012 - September 2012

*Software Development Intern*

*Cambridge, UK*

- Developed a web user interface for the OpenFTL finite element analysis toolkit, which allowed engineers to upload object models and view results of fluid-flow analysis as an interactive 3D visualisation.
- Gained experience in Javascript, ExtJS, WebGL and PHP.

## PROJECTS

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### Collaborative, Real-Time Document Editor

University Year-Long Group Project

- Designed a protocol for real-time collaborative document editing, including access control and locking
- Implemented a REST, WebSocket API for document storage and concurrent updates using NodeJS
- Negotiated protocol with groups consuming our service, specified API using RAML

### HyperLine

Personal Project

- System status line plugin for HyperTerm terminal emulator written with NodeJS and React
- Plugin has over 2600 downloads on Node Package Manager and 4 open-source contributors on GitHub

## TECHNICAL STRENGTHS

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### Computer Languages

Java, JavaScript, Python, C, Haskell

### Frameworks & Databases

NodeJS, React, Redux, Flask, MySQL, MongoDB, RethinkDB

### Tools

Git, Vim, L<sup>A</sup>T<sub>E</sub>X