

Work Experience

Kryptnostic, Inc: Front-end Engineer

Jan 2016 - Jun 2016

- Built kryptnostic.com from ground up. Implemented design and created a responsive and functional client-facing site.
- Added new features to kodex.im, Kryptnostic's flagship secure communication platform, such as administrator panel controls, user listing, archived / muted chat channels, channel notifications, front-end support for paging, email verification, pasting browser and file system images, and multiple performance optimizations.
- Took charge of UI/UX design implementation of Kodex which included rewriting the login and registration pages, user settings options, and all of the email templates.
- Spearheaded the adaptation of automated testing in Kodex. Code coverage improved from 0 to 60% as a result of this effort.
- Improved company codebase by pushing high quality tested code and providing thorough code reviews. Deployed and released code to staging and production environments.
- Technologies: HTML5, CSS3, LESS, JavaScript, AngularJS, Gulp, Karma, Jasmine, Webpack.

Biomedical Engineering Department, Columbia University: Lab Technician

Jun 2011 - Oct 2014

- Developed a MATLAB program to quantify the scaled area of cells.
- Independently conducted research on fibroblast migration.
- Performed data analysis and statistics using SPSS.

Genetics Department, Columbia University: Lab Intern

Jun 2010 - Sep 2011

- Conducted research on gene manipulation of yeast cells.
- Independently discovered a significant gene (*cwf14Δ*) linked to a chromatin mutation.
- Led weekly presentations for my group about research progress in front of the epigenetics department.

Skills

Languages: JavaScript, TypeScript, Python, Ruby

Frameworks: AngularJS, Angular2, React.js, Ruby on Rails

Libraries: RxJS, Node.js, Socket.IO, jQuery, Mongoose.js

Style: HTML5, CSS3, Twitter Bootstrap, Materialize

Databases: MySQL, PostgreSQL, MongoDB, Firebase

Testing Framework: Karma, Jasmine

Build System: Gulp, Webpack

Version Control: Git

Education

Columbia University - Barnard College

Sep 2009 - May 2013

B.A. Biological Sciences - Biomedical Engineering

GPA 3.3

Coding Dojo

June 2015 - September 2015

3.5 months intensive coding bootcamp teaching MEAN stack, Ruby on Rails, and LAMP stack. Obtained the highest level of achievement as a double blackbelt.

Awards

JFEW Foundation Science Scholarship

Jun 2010

Received a science scholarship awarded to the top 20 students in the entire Barnard Biology Department.

Projects

Choose To Go choosetogo.hanaum.com

Personal Project (July 2016 - Current)

A travel application that allows users to keep track of their travel lists and share them with anyone. It is actively being developed.

- Technologies used: Angular2, TypeScript, Twitter Bootstrap, HTML5, CSS3, Webpack, Gulp, Jasmine, Karma, Google Maps API.
- GitHub: github.com/hanaum/choose_to_go

Kryptnostic, Inc. Company Website kryptnostic.com

Front End Engineer (2016)

Implemented complete redesign of company website from the ground up.

- Technologies: JavaScript, LESS, Bootstrap, HTML5, CSS3, Webpack.

Kodex.im kodex.im

Front End Engineer (2016)

Kryptnostic's flagship chat application supporting homomorphic encryption.

- Designed and shipped new features including administrator panel, user directory, archived / muted chat channels, channel notifications, front-end support for message paging, email verification, pasting browser and file system images, and multiple performance optimizations.
- Implemented UI/UX design for login and registration pages, user settings options, and email templates.
- Technologies: AngularJS, JavaScript, LESS, Bootstrap, HTML5, CSS3, Webpack, Gulp, Karma, Jasmine.

PathfinderEDU pathfinderedu.herokuapp.com

HackingEDU Submission (October 2015)

An education planning app developed in Javascript using the MEAN stack.

- Designed front-end UI/UX (Bootstrap).
- Built controllers and factories (AngularJS).
- Implemented Chegg API (Node.js).