

# Dylan Thinnes

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## Education

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### **International Baccalaureate Diploma from St. Mary's Intl. School** 2015-2017

Theory of Knowledge: A in Extended Essay, A in ToK Presentation  
Higher Levels: 6 in Maths, 6 in Physics, 6 in French, 5 in Design Technology  
Standard Levels: 6 in Information Technology in a Globalized Society, 5 in English  
37/45 Points Overall

### **University of Edinburgh, BSc in Computer Science** 2017-2021

Functional Programming (Haskell) 1st Year Semester 1, 98% Overall Grade  
Object Oriented Programming (Java) 1st Year Semester 2

## Previous Employment

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### **Aikido Instructor in Tokyo, Japan** Late 2016 - Mid 2017

I instructed students between the ages of 5 and 15 in the martial art of Aikido on weekday afternoons and weekend mornings. No student I instructed failed to pass a test.

This job made it clear to me that I have an easy time taking instruction from those more experienced than me, prefer to learn through doing, and am perfectionist in my work.

## Programming Experience

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### **Languages**

Advanced	JavaScript (ES6+, NodeJS, ExpressJS, DOM Manipulation, CommonJS) React, MobX, JSX, Purescript Ruby, Ruby on Rails, HTML5, CSS3 (Bootstrap, SCSS), SVG
Intermediate	Haskell, XML, XSLT, JQuery, SQL (MySQL, SQLite)
Basic	Java, Python, PHP

### **Tools**

Vim, Git, Node Package Manager, Webpack, Amazon Web Services (S3, Elastic Beanstalk, Lambda, Gateway), Linux/GNU command line tools, Heroku

## Programming Projects

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### **Jobber - A Job Application Tracker - React, Ruby on Rails, SCSS**

#### **Taught me to:**

- Work with ReactJS alongside Ruby on Rails
- The finer details of React and Webpack, integrated with Rails Tasks
- Work with and around Bootstrap to present a professional yet branded site

**Description:** A web app for tracking progress in multiple job applications at a glance. Useful especially to those just entering the job market.

**Available at:** <https://github.com/jobberapp/jobber>

## **SolSys - A Math-Oriented Art Puzzle - JS, NodeJS, AWS Lambda, Gateway, S3**

### **Taught me to:**

- Manage a large project and a team (Git, directing others, goal setting, issue tracking)
- Apply my interests in front-end design and development
- Amazon Web Services administration
- Continuously reimagine my approach to a problem using new technologies

**Description:** A three-year mathematical art project which converts integers to unique, recursively defined solar systems. Uses of server-side computation, front-end UI development, graphics optimization, and server-client communication.

**Available at:** <https://solsys.xyz> (Please use Google Chrome or Mozilla Firefox)

## **Domainatrix - University of Edinburgh Domain Tracker - React, HTML, JS, CSS, SQL**

### **Taught me to:**

- Basics and fundamentals of React development
- Refactor apps to modern web dev techniques
- Write and work with APIs
- Optimize the DOM
- DNS management and traversal
- Use SQLite

**Description:** A site for keeping track of the many University of Edinburgh subdomains.

**Available at:** <https://domainatrix.me>

## **svgtojs - Compresses SVG to Canvas Bitmaps Utility - JS, HTML, CSS**

### **Taught me to:**

- Decide on and limit project scope
- Reuse existing frameworks in interesting ways
- HTML5 Canvas manipulation

**Description:** Converts SVG to HTML5 Canvas drawing commands

**Available at:** <https://svgtojs.github.io>

## **youtube-archive - A YouTube Video Organizer and Tracker - NodeJS, Shell, Python**

**Taught me to:** Write npm command-line utilities

**Description:** npm command line utility for downloading and organizing YouTube videos.

**Available at:** <https://www.npmjs.com/package/youtube-archive>

## **Additional Skills**

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**Fluent in English, French, German**

**Black Belt in Aikido**

**2017**

**Head of Model United Nations at St. Mary's Intl. School**

**2016-2017**

Received Speaker's Award, Harvard Model United Nations 2017

Received Best Delegate Award, MUNEXUS 2016

**Captain of Debate team at St. Mary's Intl. School**

**2016-2017**

Received St. Mary's Debate Team MVP Award, 2017

Received Kanto Plain Speaker's Award, 2017

**Senior Patrol Leader for Scout Troop 51**

**2015-2016**

Earned Life Rank (Second highest rank), 2016

Inducted into Order of the Arrow, Scouting's Honor Society, 2015