

# Jill C. Robinson

San Jose, CA • [contact@jillcrobinson.com](mailto:contact@jillcrobinson.com) • (669)-254-7991 • [jillcrobinson.com](http://jillcrobinson.com)  
• [github.com/wildlingjill](https://github.com/wildlingjill) • [linkedin.com/in/jillcrobinson](https://www.linkedin.com/in/jillcrobinson) • [youtube.jillcrobinson.com](https://www.youtube.com/jillcrobinson.com)

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## Software Engineer

Freelance software engineer specializing in JavaScript, Node.js and web technologies. Former molecular microbiologist. Open to full-time positions or contract work.

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## Work Experience

- Freelance Web Developer, San Jose, CA, Nov. 2016 - Present
  - Responsible for building small websites and web apps for small businesses
- Research Associate, Newcastle University, UK, Sept. 2012 - Jul. 2016
  - Performed molecular microbiological research towards a PhD thesis
  - Taught other PhD and Masters students and co-managed a research lab
- Laboratory Demonstrator, Newcastle University, UK, Sept. 2012 – Sept. 2013
  - Responsible for overseeing and leading experiments and correct working practices during laboratory teaching classes
  - Supervised and mentored undergraduate students, and assisted in grading student assignments
- Administrative Assistant, Prima Training Ltd., UK, Aug. 2010 – Sept. 2010
  - Provided data analysis and data entry assistance, dealing with large sets of data in short periods of time
- Undergraduate Laboratory Assistant, Newcastle University, UK, Oct. 2009 – Apr. 2010
  - Enabled postdoctoral researchers to run experiments and research, and maintained solutions and experimental stocks in the absence of a laboratory manager

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## Technical Summary

- Platforms: JavaScript/Node.js, Python, Swift, Web and Mobile-Web (HTML5/CSS3)
- Frameworks: AngularJS, React.js, Ember, Polymer, Pylot MVC, Flask
- Libraries: jQuery, Bootstrap, Materialize, Socket.IO, Mocha, Chai
- Servers: Linux, NGINX, Express.js
- Databases: MySQL, MongoDB/Mongoose
- Other Technologies: React Native, Xcode, Git/GitHub

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## Projects

JavaScript with Jill, [youtube.jillcrobinson.com](https://www.youtube.com/jillcrobinson.com)

- Series of walkthrough videos around building and exploring different concepts in JavaScript.

Papirus, [github.com/wildlingjill/api\\_tester](https://github.com/wildlingjill/api_tester)

- API endpoint tester that allows the user to send custom data to pre-defined REST endpoints, and call them from the browser. Mocha and Chai testing was used for testing. Hosted at [papirus.jillcrobinson.com](http://papirus.jillcrobinson.com).
- HTML5, CSS3, React.js, Node.js, Express.js, Mocha, Chai.

Colorvert, [github.com/wildlingjill/colorconverter](https://github.com/wildlingjill/colorconverter)

- A hex-to-RGB color converter app that allows quick and easy conversion and shows a color preview to the user. Mocha and Chai testing was used for testing. Hosted at [colorvert.jillcrobinson.com](http://colorvert.jillcrobinson.com).
- HTML5, CSS3, JavaScript, Node.js, Express.js, Mocha, Chai.

DirectMe, [github.com/wildlingjill/directme](https://github.com/wildlingjill/directme)

- Web app that gives the user a suggested destination or activity from the Yelp API, based on their interests. Built using Pylot MVC on the back-end, integrated with the Yelp, Google Maps and OpenWeatherMap APIs. Walkthrough video at [youtu.be/K05Ftgvj06U](https://youtu.be/K05Ftgvj06U).
- Python, Pylot MVC, MySQL, Google Maps API, Yelp API, OpenWeatherMap API, OAuth2, Materialize.

2048, [github.com/wildlingjill/2048](https://github.com/wildlingjill/2048)

- Web version of the popular 2048 game, where the objective is to move and combine numbered tiles to reach the final goal of 2048. Hosted at [bluesuncorp.co.uk/2048/client/index.html](http://bluesuncorp.co.uk/2048/client/index.html)
- AngularJS, Node.js, Express.js.

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## Education

- Double Black Belt (Highest Level of Achievement) – Coding Dojo, San Jose, CA, Nov. 2016
  - Immersive coding bootcamp requiring over 70 hours per week, specializing in front-end fundamentals as well as proficiency in three full stacks: Python, MEAN and iOS/Swift.
- Ph.D. in Molecular Microbiology – Newcastle University, UK, Jul. 2016
  - John William Luccock and Ernest Jeffcock Studentship for Medical Research
- M.Res. in Molecular Microbiology – Newcastle University, UK, Aug. 2012
  - Graduated with Merit
- B.Sc. Hons in Medical Microbiology and Immunology – Newcastle University, UK, Jul. 2011
  - Graduated with 2:1 and Honours

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## Voluntary Work

- British Science Festival Volunteer, Sept. 2013
  - Acted as a Public Liaison officer for an event for children, communicating scientific concepts to lay-audiences
- Soapbox Science Volunteer, Jun. 2015
  - Worked in a PR role to discuss the subject of Women in Science and Research with members of the public, and help attract crowds to talks given by different scientists