# Karel Hartlieb

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## TECHNICAL SKILLS

Strong: JavaScript, jQuery, AJAX, Node.js, Express, HTML, CSS, Bootstrap, Git, MySQL
Experienced: Sequelize, CSS, Firebase, Handlebars.js, MonogDB, React

## PROJECTS

**Best B4**, *Full Stack Developer*
- A web application that allows the user to search the edamam API for recipes using ingredients they have a home. Also allows for users to find places to donate food in order to prevent food going to waste.
- Developed using HTML, CSS, JavaScript, jQuery and Firebase.
- https://github.com/antipodd/Recipe-Group-Project | https://murmuring-brushlands-68254.herokuapp.com/

**TutorKarma**, *Back End Developer*
- A web application that allows a user to create a booking with a tutor
- Developed using HTML, CSS, JavaScript, jQuery, MySQL, Sequelize, Handlebars, Node, Express
- https://github.com/antipodd/tutorKarma |

## PROFESSIONAL EXPERIENCE

**Northwestern University** *Postdoctoral Fellow*                                   Evanston, IL **2010 – Present**
- Adviser: Professor Sir Fraser Stoddart (2016 Nobel Laureate in Chemistry).
- Developed research projects, recorded and interpreted data and applied statistical analysis to data.
- Published 28 peer-reviewed manuscripts, some of which are highlighted by various news organizations, and submitted 3 patent applications.
- Provided mentorship for undergraduate and graduate research students

**The University of Western Australia** *Research Assistant*                     Perth, Western Australia    **2010**
- Synthesized water-soluble macrocyclic compounds in order to encapsulate and solubilize the poorly water-soluble anti-cancer drug paclitaxel.

## EDUCATION

**Full-Stack Web Developer Coding Bootcamp** *Northwestern University*                                        **2017**

**PhD Chemistry**  *The University of Western Australia*                                                       **2006 – 2011**
- Awarded Fulbright Scholarship in Science and Engineering, published 8 peer-reviewed manuscripts

**Bachelor of Engineering with First Class Honours (Materials)**
*The University of Western Australia*                                                                          **2005**
- Relevant courses: Introduction to Java Programming
- Multiple academic award recipient

**Bachelor of Science with First Class Honours (Chemistry)**
*The University of Western Australia*                                                                          **2003**
- Multiple academic award recipient

## PERSONAL

In my spare time I enjoy keeping up with motorsports (Formula One and Indycar), playing video games (especially Fallout), hacking my way around a golf course, hiking and brewing/drinking craft beers.