

FULL STACK WEB DEVELOPER

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Zak in a box

An early proclivity for computers led me to a Java course at the University of Maine at age 11. By high school I was working at a graphic design firm and freelancing in my spare time. An interest in bioengineering introduced me to bench science and laboratory research: I studied Biology at McGill University and worked in 4 top-notch research institutions, most recently Stanford School of Medicine. The same skills that make me a great scientist make me a superb coder. Coding Dojo allowed me to formalize my self-taught education, raising my development skills to the next level. I must have impressed the staff, as they offered me a teaching position straight out of the program. I am now looking for a non-academic position where I can put my skills to use and gain experience shipping a product.

Skills

Languages JavaScript (ES2016+), Ruby, Python, HTML5 & CSS3 (including HAML, Pug/Jade, Slim, SASS)

Server AWS, Heroku, private VPS (8+ years of web & game server administration)

Databases SQL & MySQL, MongoDB, Postgres, Redis

Frameworks Angular, Vue, Rails, Flask, Bootstrap, Semantic UI, Materialize

Other technologies Vim/Neovim, Linux (Debian), Photoshop, Amazon Alexa Skills, LaTeX/XeTeX, git, Webpack, Electron

Miscellaneous SCRUM, TDD, StackOverflow

Projects _

Dude Where's My Truck? - Python stack project

foodtrucks.zaks.pw

- Web app that uses data.gov to dynamically filter and display food cart hours and locations in SF.
- Responsible for all **front-end development** and **project management**.
- **Technologies used:** Pylot (Python MVC framework), Google Maps API, Google Geometry API, Data.gov API, Twilio, FontAwesome, Moment.js, Bootstrap, jQuery
- Group project (2 person) completed in 4 days. Won first place in August Python hackathon.

Tetromino – MEAN stack project

tetromino.herokuapp.com

- Web app that allows visitors to compete against each other in **multiplayer Tetris**.
- Technologies used: Node, Mongo, Express, Vue, Bootstrap, websockets/Socket.io, Heroku
- Individual project completed in 4 days. **Won first place in September MEAN hackathon.**

Ninja Messages - Rails stack project

ninja-messages.herokuapp.com

- Threaded Rails messaging board with live-reloading posts and activity notifications.
- Technologies used: Ruby on Rails, websockets/ActionCable, Vue, Postgres, Redis, SASS, Slim, Bootstrap.
- Not TDD due to time constraints but wrote key feature tests using RSpec, Capybara, and FactoryGirl.
- Individual project completed in 5 days. Won first place in October Rails hackathon.

Dice Rolling Bot for Discord - Passion project

github.com/zakstrassberg/exalted-roller

- Open source Node.js bot and dice roller for the gaming-centric Slack clone Discord.
- Technologies used: Node.js, Discord.js, JavaScript ES2016
- Currently utilized by over 150 users in 6 servers.

See more of my work at ZakStrassberg.com

Education

Coding Dojo Silicon Valley Certificate of Completion - Triple Blackbelt

July - October 2016

- Acknowledged as first in class by peers and staff alike, achieving a perfect score on all stack exams while sweeping
 monthly hackathon competitions.
- Accepted teaching position upon completion of course.

McGill University BSc IN BIOLOGY

September 2010 - April 2013

• Completed Bachelors in 3 years. Comprehensive study of molecular biology with a focus on genetics.

Experience _____

Coding Dojo Silicon Valley TEACHING ASSISTANT

Dec 2016 - present

- Group and one-on-one instruction of Coding Dojo students.
- Responsible for running demonstrations of technologies and assignments, developing Linux curriculum.

Stanford University School of Medicine Life Science Research Assistant I

October 2015 - July 2016

- Microscopy and data analysis for Chief of Consultative Cardiology at Stanford School of Medicine.
- License to technology of principal project recently sold to Eiger BioPharmaceuticals.

PAVIR / VA Palo Alto / Stanford University Research Assistant II / Lab Manager

April 2014 - July 2016

- Focused on in vivo research including histology and data analysis.
- Primary lab surgeon and animal handler: mastered arterial excision and subQ implantation surgical models.
- Responsible for generation and submission of technical documents and reports to regulatory bodies. Liaison between the lab and Stanford/VA. Experience working with and reporting to Department of Defense.
- Streamlined several administrative and managerial aspects of the position through scripts and automation.

Boston University School of Medicine Microbiology Research volunteer

January 2014 - March 2014

- Developed Biosafety Level 4 cell culture techniques as well as viral growth inhibition assays.
- **Self-taught Python for data analysis project:** created system to automatically plot promising results from a massive database of automated tests. Developed passion for clean code and good-looking data.

McGill University Research Assistant

April 2012 - April 2013

- Research assistant Summer 2012, invited to stay in lab year-round.
- Developed autoinduction media for bacterial cultures, optimized cell culture protocol to maximize protein yield, learned drosophila and bacterial culture techniques as well as recombinant technology.
- Self-taught LaTeX, XeTeX, R, and data visualization techniques.

Pica Design Web designer

Summers 2005-2008

- Web design and development. Created pixel-perfect HTML & CSS from PSD mockups by senior designers.
- Responsible for development and maintenance of custom Wordpress and Drupal themes and installs.

Zak Strassberg Design Web designer

2005-2009

• Freelance graphic design: wrote, deployed and maintained websites for supplemental income during High School.

Publications _

2016	Engineering Pre-Vascularized Skeletal Muscle for Treatment of Volumetric Muscle Loss	Tissue Engineering
2016	Co-Injection of Induced Pluripotent Stem Cell-Derived Endothelial Cells With Shear Thinning Hydrogel	Circulation Acta Biomaterialia
	Enhances Survival and Angiogenesis in a Murine Model of Peripheral Arterial Disease	
	Combinatorial extracellular matrix microenvironments promote survival and phenotype of human induced	
2016	pluripotent stem cell-derived endothelial cells in hypoxia	Acta Biomaterialia
2016	Aligned nanofibrillar collagen scaffolds – Guiding lymphangiogenesis for treatment of acquired lymphedema	Biomaterials
2015	Protein-Engineered Hydrogels for Improved Efficacy of Stem Cell-Based Injection Therapy in a Murine Model of	Circulation
	Peripheral Arterial Disease	