

# Randy Chou

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GitHub: [github.com/Randy-chou](https://github.com/Randy-chou)

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Portfolio: [randy-chou.github.io/professional-portfolio-2021/](https://randy-chou.github.io/professional-portfolio-2021/)

Software Engineer with a Full-Stack Development Certificate from the University of Pennsylvania Liberal and Professional Studies bootcamp. Undergraduate background in academic molecular biology that served to hone skills in systemic problem solving and teamwork. Accustomed to learning quickly and independently. Experience with leading and managing group projects. Passionate about bringing intuitive UIs and novel technology into new fields. Always looking for new experiences and opportunities to grow as a developer and to put the latest and greatest in the hands of everyday user

## Education

### University of Pennsylvania LPS Bootcamp

Philadelphia, PA

*Certificate, Full Stack Web Development (2021)*

### Brown University

Providence, RI

*Bachelor of Science, Cell and Molecular Biology (2017 - 2021)*

## Projects

### Crumbs | [randy-chou.github.io/crumbs-food-app/](https://randy-chou.github.io/crumbs-food-app/)

- A website that allows you to search for recipes and nutritional information.
- Programmed all the scripting and API functionality for the website.
- Uses: HTML, CSS, and jQuery

### Weather Dashboard | [randy-chou.github.io/weather\\_dashboard-2021/](https://randy-chou.github.io/weather_dashboard-2021/)

- A website that tells you the current weather conditions of a location as well as the forecast for the next five days
- Developed the entirety of the project solo
- Uses: HTML, Bootstrap, and jQuery

### Code Quiz | [randy-chou.github.io/code-quiz-2021/](https://randy-chou.github.io/code-quiz-2021/)

- A website where you are quizzed on coding questions
- Developed the entirety of the project solo
- Uses: HTML, CSS, and JavaScript

## Professional Experience

### Brown Department of Computational Biology

*Undergraduate Teaching Assistant (January 2020 – May 2021)*

- Taught students statistical analysis with a focus on R programming.
- Put in charge of coordinating TA lab sections as well as overseeing new TAs
- Specialized in debugging student code and teaching computer science concepts

### The Harriet W. Sheridan Center for Teaching and Learning

*Undergraduate Teaching Assistant Facilitator (September 2020 – October 2020)*

- Designed and developed a Canvas course for training new undergraduate teaching assistants effective communication and learning theory.
- Worked with other UTAs to implement student and professor feedback into the course modules

### University of Utah Program for Undergraduate Research

*Lab Intern (May 2018 – Aug 2018)*

- Used Excel to analyze phosphoproteomic and RNAseq databases to search for metabolites of interest
- Explored the role of the one-carbon pathway in heart failure and post LVAD treatment heart recovery

## Skills

**Languages:** JavaScript, CSS3, HTML, Java, Python, R

**Applications:** GitHub, Adobe Illustrator, MySQL Workshop

**Tools:** Bootstrap, jQuery, MySQL, AJAX, Node.js, Express.js, Visual Studio

**Research:** Reading and writing scientific papers, PCR, Transformations, Microscopy, Flow Cytometry

## Research Experience

### Bennett Lab, Brown

#### University department of Biology and Medicine

(July 2019 – May 2020)

- Investigated mutational hotspots in the *Candida Albicans* genome using a novel haploid model
- Wrote a research proposal on discoveries and current literature related to mutational hotspots

### Winter Lab, University of Utah Department of Medical Chemistry

(Jul 2016 – Aug 2016)

- Tested the viability of the *Fusarium Heterosporum* for the synthesis of terpenes as an anti-inflammatory or anti-cancer agent
- Oversaw the training and projects of new Interns when the Principal Investigator was unavailable or out of town.