# KRIT PETRACHAIANAN

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San Francisco, CA *(current)* · Bangkok, Thailand *(permanent)*

## EDUCATION

**Grinnell College**                                                                                    **Grinnell, IA**

*B.A.* in *Mathematics & Statistics* and *Physics*, with honors                        *Received May 2017*

Cumulative GPA: 3.76/4.00

*Selected Coursework:*  Statistical Modeling · Algorithms & Object-Oriented Design · Probability & Statistics
Abstract Data Structures · Computational Physics · Social Network Analysis

## RELEVANT EXPERIENCE

**Summer Web Development Fellow**                                                      **San Francisco, CA**

*Horizons School of Technology*                                                               May – August 2017

- Use frameworks such as Node, React/Redux, and Electron to develop full-stack web applications
- Collaborate with other fellows of various different backgrounds to solve design and programming problems
- Create a fully-functional login portal and landing page with React through a contract from PepTalk Motivation

**Data Consultant**                                                                                          **Grinnell, IA**

*Data Analysis and Social Inquiry Lab, Grinnell College*                          August 2015 – May 2017

- Offered one-on-one statistical guidance to 3-5 students a week with data analysis in research projects in the social sciences
- Extracted data and clean relevant variables in preparation for instructional use
- Used R, Tableau, and D3 to create interactive visualizations to accompany datasets
- Communicated biweekly with instructors to maintain clear understanding of said datasets and visualizations

**Data Visualizations Developer**                                                                **Grinnell, IA**

*Stat2Labs, Grinnell College*                                                                 May 2015 – August 2016

- Developed worksheets and other instructional materials in R Markdown for use in advanced statistics courses
- Used Shiny and Leaflet in R to create two interactive spatial visualizations on global terrorism and racial disparities in New York City
- Collaborated with four other students over one summer to create five additional visualizations

**Statistics Mentor**                                                                                         **Grinnell, IA**

*Math Lab, Grinnell College*                                                                   August 2015 – May 2017

- Mentored more than 20 students per semester for an advanced R-based statistics course
- Assisted 5-10 students per week with understanding concepts in both introductory and advanced statistics courses

## OTHER ACHIEVEMENTS

**Summer Institute Planning Committee**                                                    **Grinnell, IA**

*Digital Bridges for Humanistic Inquiry*                                                            June 2016

- Collaborated with college faculty over two weeks to organize a week-long conference on the digital humanities
- Hosted and led a Tableau workshop for twenty faculty members from Grinnell College and the University of Iowa

**Midwest Big Data Hackathon**, Second Place

*University of Iowa*                                                                                          October 2016

- Used R to create an interactive social network diagram in a team of two within a span of 24 hours, winning 2nd place out of 36 other teams

**Undergraduate Class Project Competition (USCLAP)**, First Place

*Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)*          September 2016

- Won first place in national competition against an estimated number of 100 other groups with "Validating Cattell's 16PF Model with Exploratory Factor Analysis"

## OTHER SKILLS

| **Tools and Frameworks** | | **Languages** | |
|---|---|---|---|
| *Statistics*: | RStudio · Excel · Minitab | *Statistical*: | R · MySQL |
| *Visualization*: | Shiny · Tableau · D3 · Leaflet | *Web*: | Javascript · HTML5/CSS3 |
| *Web*: | NodeJS · Express · React/Redux | *General*: | Python · Java · C |
| *Database*: | SQL · MongoDB | *Human*: | English · Thai · Mandarin Chinese |