

Nicholas Tran

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Education

University of California, Berkeley

Class of 2019

- **GPA:** 3.29
- **Majors:** Computer Science and Economics B.A
- **Coursework:** Data Structures, Machine Structures, Database Systems,
- **Organizations:** Vietnamese Student Association, Berkeley Institute for Data Science

Projects

Text Editor

March 2016

- Developed a text editor in **Java** from scratch optimized through specific data structures.
- Features: insertion, deletion, clicking, undo/redo etc.

Bear Maps

April 2016

- Back-end web mapping application in **Java** that assembles several images onto different resolutions, tested with **JUnit** development.
- Features include zooming in/out, dragging, and finding the shortest paths.

Image Compressor with Spark

November 2016

- Back-end image compressor that adapts images to lower-level files to give extra space.
- Developed in **Python** and uses the **Apache Spark Framework** for distributed computing.

Relational Database Management System

Spring 2017

- RDBMS stores fixed-size records using B+ Trees. Implemented range-scan, sorted-scan, and search. Uses a **query optimizer** to determine optimal joins.
- Developed in **Java** and uses **JUnit Testing**.

Personal Website: nicktran6997.github.io

- Created from scratch using HTML, CSS, and Javascript.

Experiences

Academic Intern for CS61A: Structures and Interpretation of Computer Programs Fall 2016

- Helped students complete various coursework such as projects and labs alongside helping students understand course materials in U.C. Berkeley's intro computer science course.
- Participated during lab and office hours for approximately 2.5 hours per week for 13 weeks (**32.5 hours total, unpaid**)

Researcher at Berkeley Institute for Data Science

March 2017-Present

- Part of a research team that focuses on **research and development towards tools in R** for analytical Business and Economics courses at UC Berkeley.

Skills

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- **Proficient Languages:** Python, Java, SQL
 - **Some experience:** C, MIPS, Javascript, HTML/CSS, R
 - **Software/Frameworks:** LaTeX, git, IntelliJ, Apache Spark, JUnit, Git Bash, Unix Shell