

# Andrew Pham

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## EDUCATION

### RICE UNIVERSITY

B.A., COMPUTER SCIENCE,  
B.S., ELECTRICAL ENGINEERING  
May 2021 | Houston, TX  
GPA 4.0  
School of Engineering

## SKILLS

### LANGUAGES

Java • Python • C • Rust • SQL  
MATLAB • Javascript • Bash

### FRAMEWORKS/TOOLS

Angular • AWS • Apache Spark  
TensorFlow • Hadoop MapReduce  
Linux Kernel • Git • Python-Flask

## COURSEWORK

- Machine Learning
- Cloud Computing
- Tools and Models for Data Science
- Parallel Computing
- Discrete Mathematics
- Algorithms
- Functional Programming
- Statistics for Data Science
- Matrix Analysis
- Solid State Device Physics
- Integrated Circuits
- Low-level Computer Systems
- Signal Processing

## HONORS

- 1st Place in Freshmen Category at 2018 Rice Engineering Design Showcase
- Samuel T. Sikes Scholarship in Engineering
- H.R. Burnett Endowed Scholarship
- Fall 2017 President's Academic Honor Roll
- Spring 2018 President's Academic Honor Roll

## PROJECTS

### VIRTUAL FILESYSTEM August 2018 - January 2019 | Houston, TX

Link: [github.com/apham727/virtual-filesystem](https://github.com/apham727/virtual-filesystem)

- Implemented an API to expose operating system kernel components through a Unix-like filesystem
- Developed an external file storage capability

### TERMINAL EMULATOR May 2018 - August 2018 | Houston, TX

Link: [github.com/apham727/terminal-emulator](https://github.com/apham727/terminal-emulator)

- Developed a command line interface to allow users and developers to run commands on a research operating system
- Incorporated concurrency to improve terminal performance and responsiveness

## EXPERIENCE

### SOFTWARE ENGINEERING INTERN | GENERAL ELECTRIC

May 2019 - August 2019 | Chicago, IL

- Overhauled the homepage of an Angular-based dashboard application used by 40+ internal engineering teams
- Automated the aggregation of hundreds of software development and engineering metrics across the healthcare division

### SOFTWARE DEVELOPMENT INTERN | RICE EFFICIENT COMPUTING

May 2018 - March 2019 | Houston, TX

- Designed and implemented operating system applications and APIs in Rust
- Developed user-kernel interfaces modeled after the Linux kernel
- Managed complex workflows through advanced git features

### TEACHING ASSISTANT | RICE ECE DEPARTMENT

January 2019 - May 2019 | Houston, TX

- Instructed students in the implementation of microcontroller-oriented systems
- Provided feedback and teaching assistance to the course instructor

### LEAD STUDENT COMPUTING CONSULTANT | RICE IT DEPARTMENT

Oct 2017 - Nov 2018 | Houston, TX

- Managed 15+ Student Computing Consultants and led hiring process of new employees
- Served as focal point for all personal IT related issues for students and faculty

## ACTIVITIES

**IEEE Junior Representative** – Coordinated networking and outreach events with 30+ companies for Rice electrical engineering students

**Facebook Externship** (Spring 2019) - Explored large-scale dynamic databases and shadowed software engineers on the internal database team at Facebook