

Akshay Kavthekar

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EDUCATION

University of Michigan

December 2017

Bachelor of Science in Engineering, Computer Science

GPA: 3.79/4.00

Relevant Coursework:

In Progress: Computer Security, Web Databases and Info. Systems

Completed: Operating Systems, Artificial Intelligence, Data Structures and Algorithms,
Computer Organization, Programming and Introductory Data Structures

WORK EXPERIENCE

TD Ameritrade

Summer 2016

Software Development Intern

- Original member on the RoboAdvisor Team tasked with building a mobile application for Amerivest
- Constructed Proof of Concept for Amerivest RoboAdvisor App using analysis of cross-platform mobile frameworks
- Administered Test Driven approach with an Agile team to implement user stories
- Adapted existing pre-sales web application to be responsive to mobile devices

Med-Share Mobile Diagnostic Imaging

Summer 2015

Administrative Assistant

- Scanned patients' medical records into database in order to digitize information
- Worked with a consultant to facilitate supplies for upcoming patent research
- Bolstered communication skills and fostered importance of prioritization

PROJECTS

Disk Scheduler

C++ Program

- Built concurrent program to schedule disk requests from file using thread library
- Implemented scheduler using condition variables and mutexes to allow multiple threads to run at once
- Used file streams to read and process data from an input file

Log Manager

C++ Program

- Created a low latency, memory efficient log manager program
- Used hash tables, linked lists, and vectors to hold manipulated and excerpted data
- Developed search by keyword, category, and timestamp as well as sort

Algorithmic Trader

C++ Program

- Built a basic stock market simulator in C++ as introduction to the language
- Applied simplified Index Arbitrage and Market Making strategies based on bid-ask spread to run simulation on stream of orders
- Utilized classes to represent stock market and trading strategies

TECHNOLOGIES

C++ (Proficient), Python (Familiar), Java (Familiar), HTML, CSS, Linux, Git, SVN