Rishov Dutta

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

BS IN COMPUTER ENGINEERING

May 2019 | Urbana, IL College of Engineering

LINKS

Github:// rsdutta LinkedIn:// rishovdutta

COURSEWORK

UNDERGRADUATE

Computer Systems Engineering
Computer Architecture
Applied Machine Learning
Applied Parallel Programming
Artificial Intelligence
Cloud Computing
Algorithms and Models of Computation
Computer Security
Digital Systems Laboratory

SKILLS

LANGUAGES

Proficient:

C++ • C • Java • x86 Assembly Python • Javascript • HTML • CSS Familiar:

MATLAB • Swift • SQL • Verilog Frameworks/Other

Django • Apache Spark • Apache Hadoop

Spring • Docker • Kubernetes

OTHER

AWARDS

2017

Operating System Design Competition Runner-Up

2016

HackIllinois Honorable Mention **2015**

Eagle Scout

INTERESTS

Tournament Poker Investing Backpacking

EXPERIENCE

BLACKROCK | SOFTWARE ENGINEER

Jul 2019 - Present | New York, NY

- Created a portfolio simulation tool using Java and Angular to capture investing habits of portfolio managers and other users around the firm and is used daily by over 1,000 users worldwide
- Developed scalable solutions for trade execution in C++ in the trade compliance pipeline

BLACKROCK | Software Engineering Intern

May 2018 - Aug 2018 | Princeton, NJ

- Developed applications using Java to report the AUM, cash flows, revenue, and other portfolio information to portfolio managers.
- Created tools to suggest solutions to portfolio managers who did not perform well for a given quarter
- Added onto existing frontend applications to provide my solutions to end users

DECISIVE ANALYTICS CORPORATION | MACHINE LEARNING INTERN Jun 2017 - Aug 2017 | Arlington, VA

- Developed algorithms in Java to parse audio and video files to efficiently summarize them using natural language processing, and differentiate the results based on semantic frames and role labeling
- Devised and applied the Apriori algorithm to perform association rule mining which analyzed player tendencies to assist in behavior mining
- Researched and implemented behavioral analysis algorithms in Python to create player tracks and visualize certain tendencies in games such as Dota 2 and Call of Duty for use by the United States Military to confirm that relevant analysis can be done on a video game to accelerate military testing procedures and protocols for maximum efficiency

PROJECTS

FPGA LASER PAINTER | HARDWARE DEVELOPER

Apr 2018 - May 2018 | Urbana, IL

Created an FPGA system which tracks a laser pointer with realtime image processing for digit classification from a camera input and allows users to paint on a canvas. Currently has support for 7 different colors, a precision eraser, and full erase.

BLUEDRESS CAPITAL | SOFTWARE ENGINEER

Jun 2017 - 2019 | Urbana, IL

Developed solutions using django and postgresql for the fund website with trade execution, stock comparison features, profit modeling, and overall fund performance.

FACEBOOK STOCK BOT | SOFTWARE DEVELOPER

Jun 2017 - Aug 2017 | Arlington, VA

Created a basic Facebook bot to respond to users' stock market query's using wit.ai for natural language processing and yahoo finance API for ticker information

LINUX KERNEL | SOFTWARE ENGINEER

Apr 2017 - May 2017 | Urbana, IL

Developed a Linux kernel which supports non-preemptive context switching, segmented memory protection, a simple read/write file system, valgrind/malloc, and drivers for keyboard input, text/audio output, and clock