

ANEESH NADGOUDA

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EDUCATION

The Pennsylvania State University – University Park, PA

GPA: 3.65/4.0

Major: B.S. Computer Science | **Minor:** Cybersecurity

Expected Graduation: May 2023

Honors/Awards: President's Freshman Award – Fall 2019, Dean's List – Fall 2019 to Spring 2021

Relevant Classes: DSA, Operating Systems, Programming Language Concepts, OOP with Web-Based Applications, Discrete Math

SKILLS

Technical: Python, Java, C, HTML, CSS, Verilog HDL, JavaScript, React

Development Tools: VS Code, GitHub, Apache Derby Database, Vagrant, Bash, Bootstrap, NodeJs

Design Tools: WordPress, Figma, Adobe Illustrator, Adobe Photoshop, Adobe Premiere Pro

EXPERIENCE

Penn State College of Arts and Architecture

State College, PA

Data Science and Machine Learning Undergraduate Researcher

July 2022 – Present

- Transcribed 15 alumni interviews using Trint into a CSV file with text blurbs of 3 sentences each, and manually tagged sentiments
- Conducted and verified the accuracy of sentimental analysis on the text blurbs using Python NLTK
- Investigated statistical data such as frequency, overlap, contingent probability and correlation of sentiments using pandas

CVK Advisors Private Limited

Pune, India

Finance Intern

December 2021 – August 2022

- Conducted Financial Modeling for Project Finance, including Historical Analysis, Financial Projections, and Ratio Analysis
- Collaborated with a team of three to assist a senior analyst create Financial Models, which were used to help a local business secure a loan of 7.5 million dollars for the construction and operation of a hotel for the Wyndham Group

ReviewMyInvest

Remote

Web Developer and Editor

March 2021 – November 2021

- Utilized WordPress to make a website for an advising start-up to attract new clients, which got 100+ unique visitors in one month
- Designed creative vector illustrations and videos using the Adobe Creative Suite, as well as edited 3 published articles

PROJECTS

Implementation of a Dynamic Storage Allocator (Language: C)

- Implemented malloc, realloc, and free using a segregated linked list of free blocks to improve space utilization
- Employed a heap checker which ensured free and allocated blocks functioned as intended and verified all pointer manipulation

Implementation of a Buffered Channeling Framework (Language: C)

- Implemented channels, similar to Google Go, to enable synchronization for high-level concurrent programming via message passing
- Multiple clients can simultaneously read or write from a shared channel in either blocking or non-blocking mode

Implementation of Scheduling Policies (Language: C)

- Simulated a set of scheduling policies within a discrete event simulation framework, using a linked list of incoming jobs
- Calculated the completion time of jobs in the following policies: FCFS, LCFS, PLCFS, SJF, PSJF, SRPT, and PS

Recursive Descent Parser (Language: Python)

- Developed a lexical analyzer to recursively recognize tokens such as tags for web pages, list items, and text in HTML
- Validated syntax to ensure all tags were closed properly, and formatted them according to the appropriate lexical syntax

Five Stage Pipelined CPU (Language: Verilog HDL)

- Decoded and executed MIPS instructions (such as and, or, add, subtract, SLT, and XOR) in r-format, and enabled forwarding

Room Scheduler (Language: Java, Database: Apache Derby)

- Deployed a GUI interface to manage reservations for classrooms, and wrote SQL queries to maintain the database and a waitlist

LEADERSHIP

HackPSU 2022 | Team Leader and Back-end developer

April 2022

- Led a team of 4 developers to design a rating website to help Penn State Computer Science majors select their classes
- Conducted sentimental analysis on data scraped from websites such as RateMyProfessors and Reddit to define faculty ratings

Project X | Founder and Editor

August 2020 – December 2020

- Founded a team of 4 peers to raise awareness about societal issues, which eventually grew to a community of 15 diverse members
- Conducted interviews and edited videos which received 1000+ views that detail steps everyone can take to make a difference