

Vidhur Kumar

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EDUCATION

Purdue University | West Lafayette, IN

Graduating May 2020

B.S Computer Science. Minors in Mathematics and Machine Intelligence

GPA: 4.0

- **Honors:** Presidential Scholarship (4 year half tuition merit scholarship), Dean's List
- **Relevant Coursework:** Data Structures and Algorithms, Web Application Development
- **Activities:** Purdue Hackers, Purdue Web Development Club, Purdue ACM SIGAI, Varsity Cricket, Intramural Soccer

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, C, C++, HTML, CSS, SQL
- **Technologies:** Git, Node.js, ExpressJS, MongoDB, ReactJS, Redux, React Native, D3.js, Jest, Keras, Tensorflow, Docker

WORK EXPERIENCE

The Home Depot

Atlanta, GA

Software Engineering Intern (Full Stack Development)

May 2018 - August 2018

- **Pricing Visibility Tool:** Built a web application using ReactJS and Redux that provides Merchants a source of ground truth for retail information on each Stock Keeping Unit (SKU), thereby reducing the time spent searching SKU retails by 10%.
- **Tests and Deployment:** Wrote tests for each React component using Jest and Enzyme and utilized them to guide development. Deployed a Docker image of the application to the Google Cloud Platform through a pipeline orchestrated by Kubernetes.

Purdue University

West Lafayette, IN

Undergraduate Teaching Assistant

Jan 2018 - May 2018

- **CS 17700 - Object Oriented Programming in Python:** Taught 174 students the fundamentals of Python. Spent over 10 hours a week writing lab and homework assignments and proctoring midterm examinations.

Engineering Projects in Community Service (EPICS) Purdue

West Lafayette, IN

Design Lead

Aug 2017 - Dec 2017

- **Technology Assisted Dietary Assessment:** Led the Image Processing team in building an Android application that helps users track their caloric intake through pictures of their meals. Utilized graph based image segmentation and the Google Vision API to measure the calorie density of each meal and provide accurate metrics.

Northstar Technologies Inc.

Atlanta, GA

Software Engineering Intern

June 2017 - August 2017

- **F&B POS Module:** Designed the UI for the club management application's food and beverage module using HTML, jQuery, and Semantic UI. Deployed the changes to 4 different iterations of the application.

PROJECTS

Gymnastika - An Interactive Workout Logger

July 2018 - Present

- Programmed a React Native application that maintains logs of the user's workouts and tracks their progress through interactive line charts powered by D3.js. Currently integrating Realm for data persistence.

Pecucheck - A Personal Finance Application (Boilermake 2017)

September 2017 - Present

- Created a web application using the MERN stack for college students to keep track of their spending and budget their income.

FoodNet - A Neural Network for Food Image Recognition

August 2017 - Present

- A Convolutional Neural Network that was trained on 15000 food images divided into 11 categories and achieved a test accuracy of 55.71%. Currently building a web interface to showcase live results.

Perceptrons and Linear Separability - A Guide

January 2017 - May 2017

- Wrote a 16 page paper that solved the Linear Separability problem using a Multilayered Perceptron (in Python) to assist students and researchers in gaining an intuitive understanding of the algorithm and its applications.