

# DURGA DARBA

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## EDUCATION:

### IOWA STATE UNIVERSITY

Bachelor of Science in Computer Engineering  
Minor in Economics

Ames, Iowa | 2016 - 2020

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## SKILLS & CERTIFICATIONS:

### AWS ASSOCIATE DEVELOPER

Java	Git	Node.js	Cloud Development	Mobile Development	Bash
Python	SQL	Redux	Linux	React.js	Agile

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## WORK EXPERIENCE:

### YANMAR - AMERICA

Software Engineer | Adairsville, GA | May 2020 – Present

- Authored a **React Native** frontend app that allows customers to see nearest of 300+ dealer locations in the United States.
- Reached a customer base of 15,000 by working with marketing to send customized deals using various data analytics.
- Developed an external API using **AWS** and **Google Cloud** to create GPS functionality and communicate user inputted data.
- Architected a serverless backend that allows mobile app to dynamically pull dealer and user information.

### BLUECROSS BLUESHIELD MN

Digital Platform Software Engineer | Eagan, MN | May 2019 – May 2020

- Improved new employee onboarding process from 4 days to 15 minutes by creating internal automation written in **Bash**, **Python**, and **Java**.
- Engineered a search engine in **Python** and **React** that matched 650 benefits to 10,000 health conditions using a Gradient Descent algorithm.
- Redesigned and maintained workout app using **React**, **Redux**, and **React Native**.
- Overhauled system of on prem resources by helping migrate them to **AWS** and **Git Lab**.

### IOWA STATE OFFICE OF FINANCIAL AID

Student Web Developer | Ames, Iowa | February 2019 – May 2019

- Facilitated in developing and maintaining the WordPress Intranet site using **NodeJS**.
- Streamlined claims by 12% for the Financial Aid office by exploring how to work with and create a large-scale **RESTful API**.
- Designed “Cyclones Forever” student obituary site that provided resources to family and friends dealing with loss.
- Maintained backend file systems and managed the database with **SQL** and **Python**.

### KINGLAND SYSTEMS

Data Research Analyst | Ames, Iowa | May 2018 – January 2019

- Audited companies using various SEC financial documents and the Insight software to provide clients with relevant information.
- Proactively approached management with question about how to deal with various clients and proper ways to present data.

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## PROJECT EXPERIENCE:

### DASHCAM DEFENDER

January 2020 – December 2020

Objective: Develop a license plate reader to give users information about nearby vehicles.

- Led a backend development team to create a serverless application with **AWS** that stores user information and communicates between the Dashcam and accompanying app.
- Assisted in designing and programming the NVIDIA Jetson board to act as Dashcam and used the OpenALPR public API to get license plate information from video files.
- Presented a project overview in front of an advisory board that consisted of faculties and clients.

### CACTUS – PROGRAMMING LANGUAGE

June 2020 – August 2020

Objective: Author an interpreted programming language that syntactically looks like a combination of **Python** and **Java**.

- Individually, implemented Chomsky’s Hierarchy and recursive descent to build the Abstract Syntax Tree.
- Fully supports if statements, for and while loops, functions, recursion, and variable scoping.
- Evaluates code and throws errors when they are present.

### SNAKE

January 2019 – January 2020

Objective: Build Snake using **Python** and implement various algorithms to solve itself.

- Integrated the **Pygame Python library** to create the GUI.
- Analyzed various algorithms, such as A Star and Dijkstra’s, for efficiency and correctness.

### PORTFOLIO WEBSITE

September 2019 – October 2019

Objective: Create a personal blog / portfolio website to show many of the projects I’ve worked on over the years.

- Designed the website using **React** and the **Materials UI library**.
- Published site to private **EC2 instance** and used **NGINX** to provide route to personal domain.

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## LEADERSHIP & ACTIVITIES:

### STANDUP COMEDY CLUB

Treasurer | September 2018 – Present

- Managed club funds and aided in purchases for activities.
- Acted as the Master of Ceremonies for various shows and events.

### RESIDENCE HALL COUNCIL

Vice President | September 2016 – May 2017

- Campaigned various bills that redirected funding to getting new furniture in public dorm spaces.
- Worked with students to maintain a high morale throughout the semester.