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LinkedIn: <u>linkedin.com/in/sunil-rosen-458a5523b/</u>

#### **EDUCATION**

Georgetown University

August 2022 - May 2026

Github: github.com/sunilrosen/

B.S Computer Science • B.A Economics • 3.92/4.00 GPA

Washington, D.C.

Relevant Coursework: Data Structures • Mathematical Methods • Advanced Programming • Multivariable Calculus • Computational Structures Artificial Intelligence • Computational Analysis of Big Data • Artificial Neural Networks and Deep Learning • Tech, Ethics and Society

### WORK EXPERIENCE

Acquia

June 2024 - August 2024

Boston, MA

Software Engineering Intern

- Collaborated closely with an **Agile Scrum** team to deliver product increments using **Go**, **Kubernetes**, **Docker**, and **AWS services**, completing a full release cycle from testing in a development environment to deploying in a production environment
- Removed apache-exporter for customers running PHP 8.1+ due to newly added support for the PHP-FPM status page, reducing production footprint by over 142 vCPUs & 830GB of Memory
- Implemented tooling to increase minReplicas in a Kubernetes rollout, unlocking increased capabilities for high traffic customers that range up to over 100 pods
- Reconfigured an API to automatically upsize customers, providing a foundation for product expansion and increasing efficiency within the
  engineering team

Hoya Developers August 2023 - Present

Software Engineering Intern(1 of 50 inaugural members)

Washington, D.C

- Worked on the development of a website for Map Collective, a project focused on using AI-driven data to track intricate geographical
  emissions data throughout supply chains
- Contribute to the creation of a user-friendly interface with Figma and a React framework, creating 20+ toolkits and dashboards

#### Beth Israel Deaconess Medical Center

April 2022 – August 2022

Research Assistant

Boston, MA

Constructed an image processing program using Python for BIDMC pathologists to adjust the gradient in tissue slides of Eosin, a pink
dye used to highlight proteins and tissue, and Hematoxylin, a purple dye used to highlight nuclei

## **PROJECTS**

HomeBudget October 2024

- Created HomeBudget, a personal expenses tracking web application using a React framework, enabling users to manage multiple budgets and track expenses easily
- Designed and implemented key features such as multiple budget management, expense tracking, and detailed budget overviews, with a
  focus on delivering a user-friendly experience

#### Neural Network Tom and Jerry Image Classification

September 2024

- Built a Image Classification model for a dataset of images of the cartoon show "Tom and Jerry" using a DenseNet121-based CNN, achieving 91% test accuracy and 98% training accuracy in categorizing images into ones that contain Tom, Jerry, both, or neither
- Utilized a robust training pipeline with early stopping, data preprocessing, and performance evaluation using Sparse Categorical
   Crossentropy loss and Adam optimizer, resulting in detailed accuracy and loss visualizations

Sunil's ChatBot June 2024

- Developed Sunil's Chatbot, a user-friendly application that utilizes the OpenAI API for its GPT-3.5-Turbo model as well as Streamlit for the interface to facilitate engaging AI conversations with customizable Settings
- Implemented features such as conversation history, adjustable token limits, and temperature settings, enhancing user interaction and allowing for a personalized chat experience

#### **CERTIFICATIONS/AWARDS**

# Amazon Web Services(AWS) Certified Developer Associate

July 2024

 Demonstrated expertise in developing, deploying, and debugging cloud-based applications using Amazon Web Services, leveraging key services such as AWS Lambda, DynamoDB, and API Gateway

#### George F. Baker Scholar - Georgetown University

April 2024

 Selected as 1 of 9 students annually for exceptional academic performance and leadership potential, with an emphasis on applying technology and data-driven solutions to business and societal challenges

#### **SKILLS**

- Programming Languages: C++, Python, Go, Javascript, HTML, CSS
- Frameworks/Tools: Node.js, React.js, TensorFlow, React Native, Visual Studio Code, Figma, Github, Jenkins, CI/CD, Streamlit
- Cloud Infrastructure: Kubernetes, Docker, Amazon Web Services(AWS), Git/Version Control