

# Kavin Balamurugan

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## EDUCATION

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### University of Maryland

Major: Computer Science and Minor: General Business

College Park, MD

Aug 2022 - Dec 2025

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, HTML/CSS, JavaScript, OCaml, SQL, Rust, R

**Frameworks:** Unix, React, Node.js, Express.js, JUnit, JavaFX

**Developer Tools:** VS Code, Eclipse, Emacs, Github, MongoDB, PostgreSQL, Microsoft Excel, Tableau

**Soft Skills:** Cross Functional Collaboration, Effective Communication, Adaptability, Informative Presentations

**Relevant Coursework:** Object-Oriented Programming, Web Application Development, Data Structures, Linear Algebra, Discrete Math, Calculus, Business and Management, Intro to Information Systems, Foundations of Accounting

## EXPERIENCE

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### SD Solutions Internship

Data Analyst Intern

May 2024 – Current

Professional Services Company

- Automating lead generation for government contract opportunities to pursue revenue generation by leveraging **Python, PostgreSQL**, and **API calls** to SAM.gov to increase efficiency and save 60+ man hours monthly
- Triaging and analyzing leads via opportunity qualification process to determine go/no-go decision point to present **data-driven strategic recommendations** to higher leadership in daily review meeting
- Supporting written bids and maximizing federal wins through Shipley Process to create structured, compelling, and compliant proposals, addressing all aspects of federal IT requirements
- Collaborating with cross functional team and key partners to successfully deliver on OKR initiatives

### Arctic Sea Ice-Albedo Feedback Research

Undergraduate Researcher at the Climate Computing Research Lab

Aug 2023 – Dec 2023

FIRE Program

- Conducted hyper parameter tuning to tweak WRF model performance for **optimal results** to analyze changes in sea ice-albedo feedback in relation to temperature and cloud coverage
- Visualized data** in **heatmaps, line graphs**, etc. to analyze correlations between the different predefined variables to identify and **build insights**
- Wrote and presented research paper with team in undergraduate symposium to 100+ peers and professors

### Zillion Technologies Internship

IT Intern

Jun 2022 – Aug 2022

IT Services Company

- Delivered a persuasive pitch for **business ideas** to a panel of 4 leaders, receiving positive feedback
- Designed and implemented a **wire-frame** for a mobile chat application using **Figma** to enhance the **UI/UX** experience for remote associates
- Facilitated meetings with interns, stakeholders, and developers to address **business pain points** and ensure alignment to meet timelines

## PROJECTS

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### SportStat | HTML, CSS, Javascript, Node.js, Express, MongoDB, API

May 2024

- Developed a **responsive web application** enabling quarterbacks to track their game stats
- Used **MongoDB** for storage and retrieval of player stats, supporting leaderboards with real-time updates
- Integrated **American Football API** to display historical NFL season standings, enriching the user experience
- Used **Express and Node** to build a **RESTful API** to communicate between the front end and database

### Coffee Sales Dashboard | Microsoft Excel

Jun 2024

- Acquired and organized over **2,000+ coffee sales data entries**, ensuring accurate and clean data for analysis
- Analyzed sales data to identify trends, such as the most popular coffee roasts and sizes at different times of the year in order to provide **actionable business recommendations** to optimize inventory and marketing strategies
- Created a dynamic dashboard in **Microsoft Excel**, incorporating 3+ visualizations such as line and bar graphs

### London Bike Rides Dashboard | Python, API, Microsoft Excel, Tableau

Jul 2024

- Employed **Python** and the **Kaggle API** to extract and organize **17,000+ data entries** into **Microsoft Excel**
- Developed a **dynamic dashboard** in **Tableau** incorporating 5+ visualizations to represent the data effectively
- Implemented slicers and an editable date timeline for real-time updates and **data filtering**
- Analyzed the data to **identify trends**, such as the most popular weather conditions, times, and seasons for biking over 5+ years