

# Kavin Balamurugan

240-678-9948 | bkavinr@gmail.com | linkedin.com/in/kavin-balamurugan-2a015a26b | github.com/KavinB2004

## 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/C++, HTML/CSS, JavaScript, OCaml, SQL, Ruby, Rust

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

**Developer Tools:** Figma, XCode, Android Studio, VS Code, Eclipse, Emacs, Github, MongoDB, PostgreSQL

**Relevant Coursework:** Object-Oriented Programming, Functional Programming, Web Application Development, Data Structures, Computer Sci Algorithms, Linear Algebra, Discrete Math, Calculus, Mobile App Development

## 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

### 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

### Shri Yoga Website Developer

Web Designer and Developer

Jun 2022 – Jul 2022

Non-Profit Organization

- Worked with team to develop key visual aspects of the site utilizing **HTML and CSS**
- Implemented tab navigation functionality to enhance user interface using **JavaScript**, dynamically managing active states of tabs and links
- Utilized event listeners and the **Fetch API** to handle form submissions asynchronously, providing users with real-time feedback and automatic form resets
- Presented website functions to **400+ members** during their annual function, receiving enthusiastic feedback

## PROJECTS

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### Shoe Store | HTML, CSS, JavaScript, React

Jul 2024

- Developed a web application simulating an online shoe store using a dataset of over **1000+ shoes**, including attributes such as price, image, reviews, color, and category
- Designed using **HTML** and **CSS** to ensure a **visually appealing** and **user-friendly layout**
- Leveraged **React hooks**, specifically **useState**, along with **array functions** like **filter** and **map** to manage state, efficiently process the dataset, and dynamically display shoes that match selected filters

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

May 2024

- Developed a **responsive web application** enabling quarterbacks to track their game stats, enhancing user engagement and competitiveness
- 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
- Leveraged **Express.js** and **Node.js** to build a **RESTful API**, facilitating seamless communication between the front end and the database

### PurchaseOrderManager | Java, File I/O, Data Structures, Exception Handling

May 2023

- Designed and implemented a Java-based system to concurrently process purchase orders, utilizing **multi-threading** for enhanced performance and efficiency
- Implemented **file processing functionalities** to generate order summaries with client IDs and sorted lists of purchased items
- Employed efficient algorithms and data structures, such as **HashMaps** and **TreeMaps**, for optimized memory usage and runtime performance