

Kavin Balamurugan

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EDUCATION

University of Maryland

Major: Computer Science and Minor: General Business

College Park, MD

Aug 2022 – Dec 2025

TECHNICAL SKILLS

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

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

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

EXPERIENCE

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 Consulting 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
- Aided coding efforts in **XCode** and **Android Studio** through **Java**, effectively managing the development life-cycle from conceptualization to implementation

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

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

QueueManager | C, Emacs

Nov 2023

- Developed a C library for priority queues management systems using a **linked list data structure** in C
- Employed advanced memory management techniques such as **dynamic memory allocation** to ensure efficient organization and management of priority queues within the linked list structure

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