David Beck

Software Engineer

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Education

Bachelor of Science	**Colorado School of Mines**	*Golden, CO, USA*	**08/2019 - 5/2023**

- Major in Computer Science

Skills

- **Languages:** Python, C++, C, C#, Java, JavaScript, TypeScript, HTML, CSS, PHP, Bash, MIPS, OCaml,
- **Tools & Frameworks:** React, JQuery, Bootstrap, AJAX, Apache, Express, Node.js, SaaS, REST, Unity, Django, JUnit, Git, Bitbucket
- **Databases / DataScience:** MySQL, MongoDB, Pandas, Matplotlib, NumPy, Python Machine Learning
- **Other:** Agile Methodology, Scrum Master, Full Stack, Front End, Back End, Hardware Simulation, Algorithms, DataStructures, Unit testing
- **Soft Skills:** Team Oriented, Leader, Flexible, Self-Motivated, Interpersonal Skills, Software Design, Thrive in High Stress

Work History / Experience

Field Session Intern	**Burst IQ**	*Denver, CO, USA*	**05/2022 - 08/2022**

- Developed a comprehensive and user-friendly pharmacist portal interface from scratch, leveraging **HTML**, **CSS** (**Bootstrap** framework), and **JavaScript** technologies. Implemented a visually appealing and responsive design, ensuring seamless usability for pharmacists in stocking, labeling, and shipping donated cancer medication to patients from the inventory.
- Utilized **JavaScript, JQuery,** and Postman **REST-API** calls to securely store and access critical data on the blockchain, guaranteeing data Integrity and traceability.
- Demonstrated exemplary leadership skills by managing a team of professionals following the **AGILE** methodology. Conducted regular Scrum meetings as the scrum leader, fostering effective communication, collaboration, and timely project delivery.
- Engaged with key stakeholders from the client organization who commissioned the software. Presented the developed solution, Actively soliciting feedback and suggestions to align with their requirements and expectations. Effectively implemented stakeholder feedback , ensuring the final product achieved the desired objectives.

Personal Project	**Full-stack Ecommerce Website**	*Golden, CO, USA*	**08/2022 - 12/2022**

- Developed ecommerce website frontend using **HTML** and **CSS** for an enhanced user shopping experience..
- Created an efficient **SQL** database to manage customer data, product info, and orders.
- Deployed the website on **LAMP** (Linux, Apache, MySQL, PHP) with **XAMPP** for reliable hosting.
- Implemented a client-server architecture (**HTML, PHP, JavaScript**) for seamless order processing.
- Established secure admin access with username and password authentication.
- Enhanced functionality with **Ajax** technology for real-time updates and data exchange.
- Implemented keyboard-driven name suggestions and auto-fill for order forms.
- Enabled **CRUD** operations and PHP form validation for seamless product updates.
- Personalized shopping experience using stored cookies for product suggestions and tailored discounts.

Operating System Project	**CPU Scheduling Simulator**	*Golden, CO, USA*	**04/2023-05/2023**

- Developed a CPU scheduling simulator to implement various scheduling algorithms
- Dealt with a large codebase, gaining proficiency in modern **C++** principles, and working with existing code.
- Managed a simulation with single CPU, multiple I/O devices, kernel-level threads, and five task states.
- Implemented various scheduling algorithms such as **FCFS, SPN, RR, PRIORITY**, and **MLFQ**.
- Utilized next-event simulation model with event queue to manage state transitions.
- Read scheduling scenarios from a simulation file with specified format.
- Provided structured output with options for metrics, per-thread details, and verbose information.

Intercollegiate Athletics

Colorado School of Mines	**DII Men's Football**	*Golden, CO, USA*	**08/2019 - 07/2022**

- Entered Colorado School of Mines with the highest scholarship allowed.
- Demonstrated exceptional commitment and time management skills by dedicating over 30 hours per week to football While successfully managing a full course load at an academically rigorous engineering university.
- Cultivated invaluable leadership qualities and team-building, collaborating with teammates to achieve collective goals.
- Successfully navigated challenging situations and developed the ability to make critical decisions by balancing the demands of academics