Zachary Rundstrom

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Education

Bachelor of Computer Science | ***Arizona State University*** | **3.1 GPA**   *December 2024*
- Clubs: ASU Quidditch, BlockChain Club
- *Technical Coursework:* Artificial Intelligence, Cybersecurity, Data Structures and Algorithms, Operating Systems, Distributed Software Development, Applied Linear Algebra, Principles of Programming Languages

Experience

Software Engineer | **Infosys** | Internship   *Jun 2024 to Aug 2024*
- Designed and developed an intranet leave tracking application using SharePoint Framework, TypeScript, and React, resulting in a user-friendly interface, increased visibility, and a 99% reduction in leave errors
- Conducted comprehensive unit testing with Mocha to ensure application reliability and performance, and attended daily Scrum meetings to ensure a seamless deployment process
- Led a team of four interns through a series of project challenges, including redesigns, learning curves, and access issues, achieving project completion with 50% of the initial timeframe

Software Engineer | **Cloverleaf Networks** | Internship/Contracting   *Jul 2023 to Mar 2024*
- Maintained high-performance, scalable systems to enhance efficiency and provide seamless functionality
- Led the development of a new client interface, integrating 3rd party services to provide customers with up-to-date ticket information, enhancing visibility and ensure data security with comprehensive tests
- Collaborated within an Agile team using Scrum methodology to ensure efficient project management and adaptability while meeting sprint goals and deadlines

Business Engineer | **Boeing** | Internship   *May 2022 to Aug 2022*
- Automated and streamlined staffing management tasks by developing scripts with Visual Basic, resulting in a weekly time savings of 3+ hours
- Managed and tracked data related to faulty rotor blades, delivering comprehensive status updates to Rotors department managers during weekly meetings, and applied EVM principles to help schedule 4 departments

Data Analyst | **Shamrock Foods** | Internship   *May 2021 to Aug 2021*
- Utilized advanced features of Excel and Microsoft Suite to conduct in-depth analysis of large datasets, uncover valuable insights, and collaborated with cross-functional teams to enhance warehouse systems
- Presented a company-wide proposal to leadership that would reduce losses by $100,000 per year
- Analyzed and optimized pallet loading workflow, resulting in an annual labor cost savings of $50,000

Skills

Languages: GO, C#, JavaScript, Java, Python, C++, C, SQL, TypeScript, Visual Basic

Technologies: React, AWS, HTML, CSS, NodeJS, Git, Redux, NEXTJS, Docker, gRPC, SOAP, WSDL, XML, postgresSQL, mySQL, .NET, MongoDB, Redis, Terraform, Mocha, Mantine

Projects

AI Guided Pacman
- Implemented AI techniques including informed state-space search, probabilistic inference, and reinforcement learning in the Pac-Man game environment with Python
- Wrote multi-agent algorithms, and designed evaluation functions for adversarial search problems
- Applied reinforcement learning algorithms to various environments and also utilized probabilistic inference in a hidden Markov model to track ghost movement

Event Management Service
- Implemented the web service for an event management system using C#, XML, and .NET technologies
- Used concurrency patterns and multi-threading techniques to ensure efficient performance and security
- Created the backend services utilizing WSDL and SOAP, interfacing with a MySQL database, and leveraging XML technologies to facilitate data storage and manipulation.

Company Task Manager
- Developed a company task manager website using JavaScript, Express, MongoDB, and NodeJS
- Created a front-facing webpage to showcase company information with secure JWT user authentication
- Implemented role-based authorization, allowing employees to manage their tickets and managers to oversee all tickets and employees efficiently

Leadership

Treasurer - StudentsCare
- Volunteered with Banner Thunderbird Medical Center's pediatric oncology unit and MorningStar assisted living facilities, providing friendship, comfort, and connection to kids and seniors in need