Evan Simon

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EDUCATION

University of Illinois at Urbana-Champaign Aug. 2020 – May 2024
Bachelor of Science in Computer Science, Minor in Mathematics *Champaign, IL*
GPA: 3.92/4.0

EXPERIENCE

Software Engineer June 2023 – Aug. 2023
CrowdStrike *Austin, TX*
- Conducted weekly security operations for phishing alerts, SOC alerts, and 15+ other cybersecurity events
- Created data visualizations from complex datasets using Matplotlib, including visual representations of trends in malicious attacks over time, segmented by specific countries, to identify patterns and enhance security analysis
- Constructed 10+ scripts utilizing company practices and the software development life cycle (SDLC) processes
- Curated regular team meetings and brainstorming sessions to foster creativity and inter-team collaboration
- Utilized Google Sheets and Microsoft Docs for organizing, analyzing, and sharing data effectively to coworkers

Course Assistant Jan. 2021 – May 2021
University of Illinois Urbana-Champaign *Champaign, IL*
- Resolved 100+ students' questions via text forum posts, 1-on-1 meetings, and through presentations of materials
- Provided comprehensive support to students, helping navigate various challenges and achieve academic success
- Produced over 10 hours of detailed lecture recordings and comprehensive walkthroughs of homework materials
- Completed homework assignments ahead of deadlines to identify potential challenges students might face, and proactively provided detailed feedback to instructors, offering personalized suggestions to enhance their coursework

Software Developer May 2020 – Aug. 2020
Resilience, Inc. *Tampa, FL*
- Led training sessions and created presentations for JavaScript and React Native, providing guidance on projects
- Implemented changes to the mobile and desktop applications while strictly adhering to established chain of command protocols, including modifying the color scheme across more than 30+ pages for appealing designs
- Engaged in weekly check-in meetings with team members to stay updated on project updates and directions
- Encouraged communication and collaboration by asking questions and encouraging other employees to participate

PROJECTS

PiCar Pathfinding | *Python* Jan. 2024 – Mar. 2024
- Configured and integrated essential hardware components, including motor drivers for precise movement control and a Raspberry Pi as the central processing unit enabling seamless connection the software and physical components
- Designed and implemented an optimized pathfinding algorithm with low time complexity, allowing a PiCar to autonomously and quickly navigate complex room layouts while effectively avoiding obstacles in real-time scenarios
- Integrated infrared sensors to guide the PiCar, allowing it to detect new obstacles and dynamically adjust its route
- Optimized the algorithm to enhance performance across room layouts, achieving a 45% improvement in runtime

YouTube Trending | *SQL, Django, Python* Aug. 2023 – Dec. 2023
- Created a detailed UML diagram to organize and structure YouTube trending data hosted on MySQL@GCP
- Developed and integrated Django backend application with fully functional CRUD operations to manage backend
- Unified seven endpoints with trending YouTube video data to filter, search, and sorting features for 17000+ videos
- Engineered a sophisticated database utilizing stored procedures and triggers to generate 10 most popular videos

Web Scrapper | *Python, JavaScript, HTML* Nov. 2020 – Dec. 2020
- Assembled an automated script to automatically download 1,200+ slides and images from 40+ course websites
- Autonomously organized data using consistent naming conventions, optimizing for studying and easy retrieval
- Enhanced and streamlined my program, enabling efficient utilization and accessibility for seven other students

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, Cypher, OCaml, Kotlin
Frameworks: React, MongoDB, HTML/CSS, Django, Unreal Engine, Unity
Developer Tools: Git, Gitlab, Docker, VS Code, Visual Studio, Android Studio, Linux, Google Cloud Platform
Libraries: pandas, NumPy, React.js, Matplotlib, Node.js, PyTorch, Scikit-learn, BeautifulSoup4