

Dobson Dunavant

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Education

Bachelor in Computer Science – College of Charleston, GPA: 3.8/4.0 May 2024
Bachelor in Accounting – College of Charleston, D1 Soccer Player Dec 2018

Experience

Software Engineering Co-Op, Mercedes-Benz, IFA Group – Charleston, SC Aug 2023 – May 2024

- Led team of 4 to deliver a 99% accurate, end-to-end inventory scanning system within 8 month deadline using React, Flask, PostgreSQL, AWS (EC2, S3, Athena), PyTorch, OpenCV, a DJI Matrice drone, and DJI's Mobile SDK
- Designed and implemented a portable Jetson Nano-based inventory scanning station for use in industrial settings using Django, OpenCV, Yolov8, Tesseract and restful HTTPS communications via AWS API Gateway to SAP APIs
- Generalized the drone system at IFA beginning in Dec 2023 by using V-SLAM for localization and navigation with a custom 3D A* algorithm for dynamic pathfinding during inventory scans

Software Engineering Intern, Savvas Learning Company – Phoenix, AZ May 2023 – Aug 2023

- Developed full-stack solutions for Savvas Realize, a large-scale K-12 ed-tech platform, using Angular 16 micro front-ends, Apollo, GraphQL, RxJS, Spring, PostgreSQL, and Jest
- Resolved 11 tickets across Agile sprints, such as optimizing GraphQL resolvers for batch data fetching and fixing accessibility issues within Angular UI components to meet WCAG 2.1 accessibility standards
- Built an all-in-one Confluence knowledge hub, from new-dev onboarding guides to API sequence diagrams, improving team knowledge access and autonomy

Data Engineering Intern, Vision Software Solutions – Charleston, SC Sept 2022 – Jan 2023

- Transitioned from a monolithic desktop app to a microservice web app using React, Django, PostgreSQL, and AWS services (EC2, Lambda, S3, Athena), enhancing system efficiency and scalability
- Optimized API and query logic, utilizing AWS ElastiCache with in-memory data store for real-time data caching, reducing user load time by 23% (measured by AWS CloudWatch)
- Containerized Python ETL tasks and credit scoring algorithms using Docker Containers, encapsulating isolated processes and minimizing single-point failures

Solutions Engineer / Scrum Master, Ceterus – Charleston, SC Mar 2018 – Mar 2021

- Managed technical relationships with over 125 clients by translating technical features into tangible business benefits, leading to increased sales and enhanced customer engagement
- Achieved a domain-high 23% year-over-year increase in customer retention by regular feedback sessions and personalized follow-ups, leading to stronger client relationships and satisfaction

Skills

Languages: Python, Java, TypeScript, JavaScript, HTML, CSS

Frameworks: Next.js, Angular, React, Spring, Django, Flask, Express.js, Node.js

Libraries: Apollo, Axios, Prisma, ZBar OpenCV, YOLOv8, PyTorch, pandas, PowerBI, Tableau

Databases : PostgreSQL, SQLite, MySQL, MongoDB

Cloud Services & Developer Tools: AWS (EC2, Lambda, S3, Athena, SQS, RDS), Firebase (Auth, Realtime DB), Docker, WebSocket, GraphQL, OAuth 2.0, Git, Insomnia, Postman, JaCoCo, Karate, Jest