Dobson Dunavant

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Education

B.S. in Computer Science – College of Charleston, GPA: 3.8/4.0   May 2024
B.S. in Accounting – College of Charleston, D1 Soccer Player   Dec 2017

Skills

Languages: TypeScript, JavaScript, Java, Python, SQL, Bash, Zsh
Frameworks & Libraries: React, Angular, Next.js, Express.js (Node.js), Django, Spring Boot
Databases & Libraries: PostgreSQL, MySQL, MongoDB, GraphQL, Jest
Technologies: AWS (ECS, Fargate, EC2, S3, RDS, Lambda, Redshift, CloudWatch, Code+ tools, IAM), GCP (App Engine, Logging, Scheduled Jobs, VPC), Docker, Terraform, Git, Jira, Postman, Travis CI, Tableau

Experience

Software Engineer, Savvas Learning Company   May 2024 – Present

- Developed full-stack solutions for Outlier.org, an online dual-enrollment platform, using React, Node.js, PostgreSQL, Jest, and Google Cloud in an Agile environment
- Implemented Redis caching for frequently accessed data, such as student course progress, resulting in a platform-wide 29% improvement in average response time for student progress data retrieval
- Researched, designed and executed GCP to AWS cloud migrations, including App Engine to ECS Fargate, Cloud Storage to S3, BigQuery to Redshift, achieving 0 application downtime through live syncing solutions
- Created a GCP to AWS VPN for secure communications between between VPCs
- Designed and built out a blue-green deployment using AWS CI/CD Code+ tools for automated system stability

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

- Led a team of 4 to develop a portable warehouse inventory scanning system using React, Flask, AWS, MySQL, OpenCV, Tesseract OCR, and YOLOv8 to accurately track inventory movements in real-time
- Authored System Requirements and Design Specification documents by collaborating with warehouse stakeholders, leading to effective planning and execution
- Delivered an end-to-end system within 6 months, including real-time updates via RESTful API communications to SAP API endpoints, leading to previously non-existent inventory awareness

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

- Developed full-stack solutions for Savvas Realize, a large-scale K-12 ed-tech platform, using Angular micro-frontends, GraphQL, RxJS, Spring Boot, MySQL, Storybook, and Jest
- Optimized GraphQL API calls by minimizing over-fetching data and streamlining query logic
- Won summer hackathon by leading the development of a PowerBI student insights dashboard
- Improved API test coverage by 19% through Karate CI/CD integration (measured by JaCoCo metrics)

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

- Migrated and containerized credit scoring ETL tasks into a microservices architecture using Docker, Terraform, and Azure (Functions, Data Factory, Cosmos DB)
- Optimized Azure Functions APIs and Cosmos DB SQL queries by fine-tuning parameters and caching logic, reducing user load times by 9%

Solutions Engineer / Scrum Master, Ceterus   March 2018 – March 2021

- Gathered requirements and built custom product configurations for 125+ clients, ensuring solutions directly aligned with business needs, resulting in a domain-high 92% 2-year client retention rate