

ALEXANDER KING

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WORK EXPERIENCE

Purple Stack LLC, Dallas TX – Founder

OCT 2021 – PRESENT

- Founded a software consulting company that developed software and guided software projects for several startups and small businesses
- Independently secured three contracts within the first year of business, made \$25k in revenue
- Provided internal leadership to an 11 member development team for Sciencella LLC

BCypher Corp, San Francisco CA – Software Engineer

Oct 2021 – Sep 2022

- Created risk analysis dashboard using React and Flask allowing tens of businesses to monitor transaction risk for a given crypto address
- Architected serverless ongoing monitoring system using AWS Lambda and EventBridge providing daily risk comprehension of 350 GB of customer data at subsecond query times; stored using AWS Aurora
- Data acquisition and web scraping using python to parse OFAC Sanctions lists, Bash scripts using cURL for open source data, Java and Jung for on-chain graph analysis, and AWS S3 for storage; 100,000 addresses scanned per day, all orchestrated using Apache Airflow

Sciencella LLC, Fairfax VA – Software Engineer

Jan 2022 – May 2022

- Designed mobile and desktop SPA's using React/React Native and Flask to connect cancer patient data to clinicians
- Used PIL and AWS Rekognition for image processing to recognize food with 95% accuracy and query USDA API to provide accurate nutritional breakdowns for clinical use
- Deployed Microservice architecture to several EC2 Servers using NGINX + Gunicorn and systemd to ensure high availability and throughput

Long Drive Agency, McKinney TX – Junior Software Engineer

Jun 2020 – Nov 2021

- Built CRM Dashboard using React and Express to connect 300+ customers to company resources
- Created custom communications analytics using AWS Lambda and Eventbridge allowing managers to see overview statistics of email and web campaigns
- Designed and implemented customer login system to authenticate users throughout our microservices using AWS Cognito

EDUCATION

University of Texas at Dallas, Erik Johnson School of Engineering and Computer Science

B.S. Computer Science

August 2017 – May 2022

TECHNICAL SKILLS

Languages: Python, JS, HTML, CSS, Sass, C/C++, C#, Java, Bash, SQL

Frameworks: React, React Native, Flask, Express, Docker, AWS, Raspberry Pi/Arduino, Microservice applications

Cloud/Database: Postgres, Redis, MySQL, Sqlite, AWS, Heroku, Netlify

Design: Ableton, Blender, Unity, TouchDesigner, Premiere Pro, Photoshop, Gimp