Chad Lutz

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Summary

An experienced developer with a focus in web, API, and business data development. Some other projects I have built are multiple iOS apps with swift, a lexer and parser in C++, desktop games in Python, desktop apps with Electron. I adapt quickly to a wide variety of software engineering tasks and programs.

Enterprise History

Veritas Global Protection • Jr. Software Engineer • Software Engineer (Sep. 2021 - Present)

- Building business software and APIs using C# and ASP.NET, as well as maintaining PowerBI graphs, the MS SQL database, and Windows Server. Our team migrated from BitBucket and is currently using Azure for our repository.
- In progress of normalizing then migrating the database to fix pre-existing bad data issues, converting in-line SQL to stored procedures, and rewriting the internal company website (200,000+ lines) that handles all the data entries, retrievals, modifications, reports, downloadables, all with required unique login information from Visual Basic to C# and Telerik with .NET Framework. As well as added an API to the backend for certain function calls and third party use.
- Working within the hosted server for site deployments and nightly scheduled tasks.
- Setup Azure deploy for the new API
- Wrote console applications that range from connecting to a third-party API to update/retrieve information, scheduled maintenance tasks, creating reports in CSV or Excel format, sending emails with a link to download a requested report from/off the company website, and many other automatable tasks.
- Was the lead of all the PowerBI graphs and charts needed by management, helped train the person who now handles them.
- Lead the API development with multiple third-party companies for sending API data into our system, as well as accessing their API to import their data.
- Built WinForm applications for various departments to use for database updates.

Core4ce • Fullstack Software Engineer (June 2023 - October 2024)

- Work with AWS to set up the Amplify server for deployment/hosting of the application, AWS Cognito for user authentication, AWS CloudWatch for logging, and AWS SNS, SQS, and Lambda using Python for email and in app notifications
- Use the GRAND tech stack (GraphQL, React, Apollo, Neo4j Database) along with NextJS/NodeJS, TypeScript, and Leaflet maps as our tech stack for a from the ground up geospatial health domain application for use between governments, militaries, and other health organizations.
- Made sure the application is compatible with all systems by maintaining all the different possible standards and identifiers
- Work with AWS to setup an API Gateway to connect to Lambda functions running NodeJS for an external facing API for the users
- Work with AWS SAM for local testing of the lambda functions
- Use GitLab for Sprint planning and code hosting as well as completion of tasks through branches that we merge into our deploying branches after QA reviewing each completed task/branch

- Work with Git pipelines for continuous integration testing, code quality, type checks, and continuous deployment through Serverless, then AWS SAM to AWS Amplify, Gateway, and Lambda whenever our specified deployment branches are updated
- Used AWS Neptune and Gremlin for the building of our NodeJS API which runs on AWS Lambda functions after being automatically deployed through GitLab after passing the continuous integration tests
- Built and worked with Jest test suites for the different endpoints in the API by using custom handlers that accessed their respective functions and utilized continuous integration for all the tests
- Work on the basis of AGILE two week sprints with daily SCRUM meetings between all the workstreams
- Help support the requirements team by working with the Neo4j database, python scripts, GitLab API, and csv files
- Hold a CAC/Public Trust

Chronos.Works • Intern Software Engineer (Sep. 2020 - April 2021)
- Worked with an enterprise group that is based in the U.K. in an agile team using a SCRUM framework and GitHub to develop new features for a website.
- Architected a sales playbook/CRM calendar page to the website using the Fullcalendar.io JavaScript packages, PostgreSQL database, HTML, and CSS.
- Implemented middleware functions in the Express server to authenticate a user's account and verify the account is logged in on the page by using the user's unique account ID.
- Used Sequelize to interface with the PostgreSQL database to load, add, or remove data from a user's calendar information in the database.

Educational History
Arizona State University – B.S. in Computer Science (Software Engineering)
August 2017 – May 2021
Concentration in Software Engineering

Experience In
- JavaScript, TypeScript, React, Next.JS, GraphQL, Neo4j, Cypher, Apollo
- AWS Amplify, AWS Lambda, AWS Cognito, AWS CloudWatch, AWS SNS, AWS SQS, AWS API Gateway, Serverless, AWS SAM, AWS Neptune, Gremlin
- HTML, CSS, React, MarkoJS, Express, Electron
- C#, ASP.NET, .NET, IIS, Telerik, Visual Studio, PowerBI
- SQL, Microsoft SQL Server, Stored Procedures, PostgreSQL, Sequelize
- API's, NodeJS, REST, JSON, XML, CSV, Swagger/Swashbuckle
- Swift, XCode, iOS
- C, C++
- Java, Eclipse
- Git, Azure, GitLab, Bitbucket, Sourcetree, GitHub, CI/CD
- Git Pipelines, Data Pipelines, Testing, SDLC, Jest