HP

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SENIOR SOFTWARE DEVELOPER

PROFILE

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EDUCATION

Engineering

UNIVERSITY OF TOLEDO

SUMMARY

Results-driven application developer with a decade of experience across diverse domains, including insurance, applicant tracking, geographic information systems, and pavement management systems.

- Proficient full-stack developer with hands-on experience in frameworks like React, React Native, Angular, .NET, and Python.
- Skilled in developing and deploying custom applications on AWS and Azure, expertise in serverless architecture, error tracking, logging, and optimization.
- Proficient in Python-based data analysis using pandas, NumPy, and scikit-learn.

SKILLS

- **AWS** - CloudFormation, SES, SNS, S3, DynamoDB Streams, ECS, RDS, Lambda/Step Functions, Glue, CloudWatch, API Gateway, Athena.
- **Azure** – App Services, Web Apps, Functions (C#, Python), Logic Apps, App Insights, CosmosDB, SQL Server.
- **Framework** – Angular 7+, React 16+, React Native, .NET, Python, Loopback.
- **Front-End** – HTML, JavaScript, Typescript, CSS, jQuery.
- **Data Science** - Pandas, numpy, Pet, sklearn, seaborn.
- **Database** – MongoDB, SQL Server, Mongo Shell, SQL, T-SQL, Stored Procedures.
- **Geographical Information Systems** – ArcGIS, ArcGIS Server, Python Web Services.
- **Testing** – Jest, Karma, Selenium, MSTest.

EXPERIENCE

Tata Consultancy Services (TCS) - SVB /   June 2021 – Present   /   Consultant

Designed and implemented connected services utilizing event-driven architecture and microservices using Node.js, Strongloop, TypeScript, and KafkaJs. Also incorporated third-party services for identity verification.

Client Onboarding- Full stack developer, working with Integrations, API and UI teams on creating a portal for onboarding client/businesses to SVB.

- Developed UI using React and Redux, with a focus on performance and UX.
- Created a comprehensive test suite using Jest for front-end components.
- Developed and published NPM packages for both front-end and back-end, promoting reusability across the entire tech stack.
- Designed and developed microservices utilizing the Node.js stack with Strongloop framework and Kafka queues using kafkaJs, based on event-driven architecture.
- Developed test suites for microservices for ensuring quality and stability.
- Proficient in using AWS services such as CloudWatch, X-Ray Trace, and Splunk for monitoring and debugging applications.

- Developed API proxies on Apigee, leveraging its capabilities for API management and security, to streamline the integration of enterprise applications and systems.
- Collaborated with cross-functional teams across different regions to deliver successful software projects.

SWISS RE, NY   /   June 2018 – June 2021   /   Senior Full Stack Developer

As a senior full stack developer, I was instrumental in developing B2B2C platforms, with a specific focus on life insurance and Medicare supplement products.

Life Insurance and Medicare Supplement Platform - Led development of B2B2C insurance platform for customers and agents on Azure using Angular and Java, ensuring high-quality code and user experience.

- Collaborated with Software Architect and Senior Developers to select appropriate technology stack for platform
- Collaborated with UX designers, backend devs, analysts to develop flow diagrams, API docs, & estimates.
- Proficient in Angular features, including Http Interceptors, Lazy Loading Feature Modules, Custom Validators, RxJS, and NgRx library for state management, as well as creating custom npm packages.
- Integrated Google Analytics and Azure Application Insights to monitor page tracking and performance.
- Developed a comprehensive test suite using Jest, integrated with Azure pipelines for code coverage reports, ensuring high code coverage.
- Developed several in-house and proof-of-concept apps using React, Redux, Angular, C#, and Python.

Data Migration - Collaborated with a dynamic data team to develop streamlined ELT processes, utilizing C#, Python, Azure Functions, Logic Apps, and Azure Data Factory, to seamlessly migrate data from third-party sources to data warehouses.

- Led a team of 3 to identify a secure data access tool for business users with various roles.
- Created Azure Functions using Python 3.x and C# to migrate data from SFTP, ADLS to SQL data warehouse.
- Integrated Azure Logic Apps with custom Azure Functions for data processing, reporting, and email publication.
- Developed ETL processes using Azure Data Factory (ADF) V1 and V2 with custom C# code.
- Automated several data processing tasks using PowerShell and Python scripts.

THE NEW TEACHER PROJECT, NY   /   October 2011 – June 2018   /   Senior Software Developer, DevOps

As a senior full-stack developer, I led the development of web applications, designed and executed AWS migration strategies, and oversaw DevOps tasks. This involved collaborating with cross-functional teams across different regions to ensure timely and efficient delivery of high-quality software solutions.

Teacher Tracking Systems - Design/Architect and develop applicant tracking systems for teachers using JavaScript, ASP.NET, Node.js, MongoDB, SQL Server on AWS. Leveraged several AWS services including SES, S3, Athena, DynamoDB.

- Developed TeacherTrack2, Argus, and INRS web applications using .NET and JavaScript on AWS. These systems facilitate teacher recruitment, evaluation, and performance reporting.
- Created ETL app with AWS Step Functions, Lambda, DynamoDB, and Python to build SQL Server data warehouse.
- Proficient in web development (Angular, Knockout, ASP.NET) and backend development (C#, Node.js, Python, Go), using various databases including SQL Server, MongoDB, PostgreSQL, DynamoDB, and AWS RDS.
- Migrated monolithic services to AWS microservices with Lambda/Step functions, S3, SES, and DynamoDB using .NET Core/Python.
- Designed microservices for Salesforce and Blackboard integration using AWS Lambda functions (.NET Core).
- Established a CI/CD pipeline using AWS CloudFormation, Lambda, S3, and PowerShell scripting.
- Practiced test-driven development using MbUnit, Galelio, Selenium, qUnit, and Jasmine.

- Utilized performance tools (nHibernate profiler, SQL profiler, dotTrace, NewRelic) to optimize website performance and reduce load times. Also utilized Lucene.net for data indexing and Couchbase server for caching.

Operations - Worked with IT Operation team on migrating various applications from inhouse to AWS and Azure. Create staging and production environments for the dev teams and provide production support.
- Assisted in setting up beta and production environments.
- Provided 24/7 production support, addressing infrastructure and application alerts.
- Automated AWS infrastructure for CI/CD pipelines.
- Automated data backups, transfer, and copying across AWS instances using Powershell CLI.
- Configured monitoring and logging using CloudWatch.

WIND ANALYTICS, NY / April 2011 – October 2011 / Senior Software Developer

Designed a web application using n-Tier architecture for wind turbine installer/property owner to analyze whether a property is cost effective for wind turbine installation using ASP.NET MVC3, C# 4.0, WCF, Silverlight 4.0, SQL Server 2008, ArcGIS Server 10.0 and ESRI Silverlight API.
- Developed authentication module using ASP.NET MVC3 with CAPTCHA feature.
- Integrated with Zoho CRM via Zoho API for customer details forwarding to CRM database.
- Utilized PayPal integration for payment processing.
- Created ArcGIS cached service for wind class map of USA using NREL data.
- Created Python geoprocessing services to determine wind class for missing areas using nearest spatial search.
- Extensively used Linq, LinqToSQL, Entity framework, and stored procedures for SQL Server CRUD operations.
- Coded with standards and practices based on MVVM (Silverlight), MVC3, CodeRush Xpress and unit testing.

FOLIAGE SOFTWARE SYSTEMS, MA / June 2010 – April 2011 / Software Developer

Developed a user-friendly web application using ASP.NET 4.0, C# 4.0, and Silverlight 4.0 for FAA/NPS personnel to download and process GIS data. The application utilized ArcGIS Server 10.0 and ArcSDE, with features such as the ArcGIS API for Silverlight and SQL Server 2008 for efficient data management.
- Utilized Silverlight Telerik Rad Controls to display tabular and graphical data.
- Developed web service for automatic download and import of USGS Seamless GIS data into ArcSDE database.
- Developed ArcGIS Server RESTful services to transmit GIS data as images using Python.
- Created custom GIS tools with ArcGIS API for Silverlight, utilizing geoprocessing and third-party web services.
- Established coding standards and MVVM pattern practices and implemented unit testing with MSTest.