Calvin Hsu
Full Stack Software Engineer
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I am a Software Engineer with a background in Web Application Development and Quality Assurance Engineering. My passion lies in solving complex problems and delivering innovative solutions throughout the entire application development life cycle. I possess a relentless commitment to problem-solving and a natural ability to think critically, allowing me to tackle challenges head-on and overcome obstacles with ease. Dedicated to continuous learning and staying at the forefront of technological advancements, I leverage the latest tools and frameworks to enhance the development process. I am committed to delivering solutions that leave a lasting impact and create extraordinary user experiences.

SKILLS

Languages -	C#, JavaScript, JSON, SQL, T-SQL, HTML, CSS, XML, Python, Mongo, EJS, DTL
Database -	Microsoft SQL Server, Google Internal SQL, PostgreSQL, MongoDB
Libraries and Frameworks -	ASP.NET MVC, Entity Framework, React (class based and hooks), jQuery, Ajax, Bootstrap, Materialize, Material UI, Express.js, Django
Tools -	RESTful Web API (TFS Server), SSRS Report Builder, Google Internal Report Builder, Amazon S3 Bucket, HTML5 Canvas, Postman
3rd-Party Plugins -	Highcharts, DataTables, Editor, Google Maps/Places API, YouTube API, Twitch API, Stripe API, DiceBear API, Socket.IO, Framer Motion, Formik, EmailJS

PROFESSIONAL EXPERIENCE

Subject-Matter Expert Engineer, QualiTest Group for Google | Austin, TX   *Nov. 2019 – Oct. 2022*
- Served as subject matter expert for radio actions quality and Google Stadia in Google locales (~200).
- Designed and built tools as well as reporting dashboards using Python, Unix, SQL, and Google Apps Script.
- Built guidelines for Google and trained team members on diverse projects and languages such as SQL.
- Demonstrated leadership by independently spearheading and overseeing a dedicated sub-team focused on radio, successfully orchestrating the launch of 5 different providers.
- Provided Chinese native-language expertise for media actions quality, such as music, movies, and TV shows.
- Adjusted the user interfaces for locales and wrote configuration documents for orientation & training.
- Scaled knowledge within the team and coordinated issues resolution between QualiTest and Google.

Web Application Developer II, American Financial & Automotive Services, Inc. | The Woodlands, TX   *May 2016 - Oct. 2019*
- Developed and debugged applications for sales team and internal administrative staff using C# ASP.Net MVC, LINQ, JavaScript, jQuery, and SQL Server.
- Built stored procedures in SQL Server for sales and management reporting.
- Wrote API within the applications to allow ease for development and to improve application efficiency.
- Produced web applications to facilitate sales prospecting with available data.
- Created, deployed, and managed SSRS Reports for internal reporting.
- Converted and improved existing digital or paper reports into more up-to-date web-based reports.
- Updated all old fashion datatables into the new jQuery DataTables & Editor to maximize efficiency for users to create, edit, or delete data.
- Constructed an out-of-the-box inventory management system starting with the database structure to connect all the administrative tables on the site.

SOFTWARE DEVELOPMENT PROJECTS   *May 2016 - Present*

Adventur Chats – Travel App with Chatting | MongoDB, Express.js, React, NodeJS, HTML, CSS, Material UI, Axios, Multer, Amazon S3 Buckets, Socket.io, Google Places API, DiceBear API | Live Site | Github
- Spearheaded the entire development lifecycle of this project, including formulating the project's wireframe and establishing the database structure.
- Researched, selected, and successfully implemented essential tools and APIs required for this project. This included configuring Amazon S3 Bucket file upload in conjunction with Multer, integrating the Google Places API, and deploying other key resources.
- Provided guidance and support to teammates throughout the project, facilitating knowledge sharing, troubleshooting, and fostering a collaborative environment for the successful completion of tasks and milestones.
- Managed backend development and model building, overseeing coding, optimization, and troubleshooting of critical components.
- Fabricated and implemented reusable components to enhance code efficiency and maintainability, streamlining future development efforts and promoting code consistency.

CreatorWallet – Content Creator Deals Management App | Python, Django, PostgreSQL, JavaScript, jQuery, HTML, CSS, Materialize, Highcharts, Amazon S3 Buckets, YouTube API, Twitch API, Stripe API | [Live Site](#) | [Github](#)
- Devised a comprehensive, user-centric solution that simplifies the intricacies of deal management into a single, streamlined platform.
- Designed an intuitive reporting dashboard with Highcharts integration, enhancing user experience by providing a user-friendly interface for tracking deal progress and facilitating a more intuitive monitoring process.
- Established a solution enabling users to store deal attachments using Amazon S3 buckets.
- Forged an exceptionally accessible approach for users to effortlessly manage deals, social media platforms, and associated deals details, encompassing attachments and deal activities, within a straightforward CRUD framework.
- Incorporated the YouTube and Twitch APIs to seamlessly include user data from each platform into our application.

Touch Grass – Valorant Lineups Sharing App | NodeJS, Express.js, MongoDB, Canvas, JavaScript, HTML, CSS, Bootstrap | [Live Site](#) | [Github](#)
- Integrated Google OAuth to establish secure and streamlined user authentication within the application.
- Employed MongoDB as the backend solution for the efficient management of Valorant's game asset data and seamless CRUD operations for user-created lineups.
- Implemented HTML5 Canvas to enable the creation of visual guides, allowing users to draw lines on maps, effectively indicating the start and end points of their lineups.
- Developed internal APIs to dynamically populate data through user interactions, reducing the need for page reloads and enhancing the overall interactive experience.

Children's Matching Game | JavaScript, HTML, CSS| [Live Site](#) | [Github](#)
- Created an interactive children's matching game designed to enhance pattern recognition and image association skills.
- Leveraged JavaScript classes to implement object-oriented structure within the game design.

Google Media Onboarding Reporting Dashboard | Google Internal SQL/ Report Builder, Apps Script, BigQuery, Python
- Utilized Google Internal Tools to produce a multi-tab reporting dashboard for stakeholders.
- Aggregated data from multiple sources within Google into a singular report using Google Internal SQL, Google Apps Script, Python, and Google Internal Report Builder.
- Designed a way for stakeholders to track workflows, and ultimately improved productivity by 50%.

Prospecting Map Tool | C#, ASP.NET MVC, Javascript, jQuery, MS SQL Server, HTML, CSS, Google Maps API, DataTables, Bootstrap | [PDF](#)
- Crafted a sales prospecting application using Google Maps API to map out potential car dealer prospects.
- Engineered RESTful API fetch calls utilizing C#, MS SQL, and Ajax technologies to interact with a backend system, enabling seamless handling of all aspects of the Create, Read, Update, Delete (CRUD) operations.
- Styled and created the visual aspects using DataTables, Bootstrap, HTML5, and CSS3.

EDUCATION

GENERAL ASSEMBLY | REMOTE
Software Engineering Immersive   *Jun. 2023 - Aug. 2023*
Full-stack software engineering immersive student in an intensive, 24-week, 450+ hour program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies. Developed a portfolio of individual and group projects.

COVENANT COLLEGE | LOOKOUT MOUNTAIN, GEORGIA
Bachelor of Arts in Mathematics   *Aug. 2010 - Jun. 2014*