

# JUSTIN BRENNER

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## RESUME OBJECTIVE

Full-stack Developer & Data Engineer with 6+ years of experience designing/developing data architecture and web applications for enhanced operational output.

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## EMPLOYMENT HISTORY

### Stryker Corporation

December 2021 to Present

Stryker Corporation | Kalamazoo, MI

*Stryker is the world's leading manufacturer and marketer of major health care products. Its products include surgical hand pieces, hospital beds, medical implants, surgical robotics, and disposables.*

#### **Application Developer | Procurement COE**

I am working with the procurement COE function to develop the architecture which will support the Procurement Analytics Center of Excellence (PACE) project. Within this project I am responsible for developing all front-end and back-end workloads for business process applications which will be developed in React.js utilizing an Azure back-end connecting to multiple REST API's and data factory pipeline outputs.

Some key skills used in this position:

- React.js, Ruby on Rails, Next.js
- GCP, Azure, AWS, MongoDB
- Machine learning using NVIDIA Clara, AWS ML Tools, Azure ML Tools
- Data engineering tools such as Python, R, Java and Scala
- Version control using DevOps

#### **Staff Data Engineer | Data Architecture/Analytics February 2019 to December 2021**

I was responsible for developing a global analytics strategy for the Global Quality and Operations side of the business utilizing Azure tools and services to create, deploy and manage our businesses data architecture and analytics. I have built several data storage systems with complex ETL designs in Azure and Alteryx to bring data to its final destination for reporting: utilizing Stryker's existing data sources such as our global eQMS/eCAPA management system (TrackWise) along with multiple ERP and financial systems including some external API sources from OpenFDA. Additionally, I have built several PowerApps and validated .NET and Vue.js web applications from an MVC design pattern hosted in Azure to enhance manufacturing and safety productivity based on user requirements; using SSO authentication, custom JavaScript classes/methods, and CSS to accommodate company brand.

Some key skills used in this position:

- Creating powerful business analytics through platforms such as MS Power BI, MS Power Apps and Tableau interfacing with ERP, SaaS CUBEs, SQL Servers, etc.
- Machine learning using NVIDIA Clara, AWS ML Tools, Azure ML Tools
- Vue.js, React.js, .NET, Ruby on Rails, Angular JS, Java
- GCP, Azure, AWS
- Version control using DevOps

**Sr. Supplier Quality Engineer | Printed Circuit Boards, Software Bundles, and Plastic Injection Molding June 2016 to January 2019**

I was responsible for managing over 400 components across 62 Suppliers providing PCBA, electrical assemblies and plastic injection molded components. I have driven corrective actions to defect concerns with Stryker's suppliers, addressing eCAPA related incidents (NCs/CAPAs). I have been supporting supplier's process stability through creating and maintaining supplier's component/sub-assembly PPAP documentation, due to new product introductions, supplier-initiated requests, or process improvements which include process flow, control plans, PFMEAs and equipment / process capability.

Some key skills used in this position:

- Assisting R&D with new test method development and validation
- Utilizing statistical techniques to ensure Supplier process adequacy to maintain determined level of DPM
- Partnering with Operations in the investigation / correction of process failures
- Performing Process / Production Control Plan Audits
- Contributing in audits conducted through internal or external auditing bodies
- Communicating DFM guidelines and DFSS to R&D to ensure component manufacturability

***Sr. Failure Analysis Engineer | Post-Commerce Complaints, Field Service Support, and New Product Development April 2015 to June 2016***

I performed product / component complaint investigations to determine the root cause of electrical, software, and electro-mechanical failures in post-market products returned to Stryker. I acted as the technical liaison between sales reps and customers to provide support in the field, while ensuring that the appropriate corrective actions for out-of-box failures had been addressed internally at Stryker. I developed custom software analysis programs to root-cause devices and data compilation for trending purposes.

Some key skills used in this position:

- Analyzed ultrasonic aspiration system schematics and performing relevant tests to root-cause failures
- Conducted TM analysis / quantization of production chemicals and residues
- Utilized statistical techniques to influence pre-commerce product design verification tests
- Characterized components using: FTIR, TXRF, UV-Vis, SEM, TOC, Mass spectrometry, CMM

**Brenner Oil Corporation**

**June 2011 to June 2014**

Brenner Oil Corporation | Holland, MI

*Brenner Oil sets the pace for West Michigan's oil delivery industry as one of the Top 20.*

***Quality Assurance Project Engineer | Internal Oil Reprocessing and Logistics***

I developed quality control and periodic maintenance standards, for equipment, tools and processes in the discipline areas of pressure equipment, certified service equipment, and electrical wiring. I led SAP ERP implementation to manage high-volume operations that integrated supply chain logistics with warehouse and distribution processes to optimize inventory traceability, cross-docking and distribution operations in real time. Monitored distribution operations using SAP Analytics Cloud to make better decisions backed by data.

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**TECHNICAL SKILLS**

- Libraries (Vue.JS, React.js, Express.js, Next.js)
- Frameworks (MUI, Grommet, Redux, ASP.NET, Ruby on Rails, Angular JS, Java)
- Azure Services (Data Lake, Data factory (ADF), Azure App Service, Azure API Management, Azure Databricks, Azure SQL database, Azure SQL Datawarehouse)
- External API integration into applications
- MS PowerApps, Flow (Power Automate)
- MS Office applications (Access, Excel, Outlook, PowerPoint, Word)
- ERP System management (AS400, Oracle, SAP)
- Business analytics platforms (Power BI, SAP Analytics, Tableau, Qlik, Oracle)

- Data management (SQL, Azure, AWS, GCP, RScript (statistics), Attivio)
- Root cause analysis tools (Fishbone, 5-why, human error, Shanin quality principles, Red-X, 8D)
- Technical design, Data verification & validation test methods

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## EDUCATION

**Bachelor of Science in Engineering, Chemical Engineering** | May 2014  
**Calvin College** | Grand Rapids, MI  
2.8 GPA