

🐣 SUMMARY

Throughout my extensive career, which commenced in 2003, I have consistently demonstrated proficiency in software development and leadership roles. Over the years, I have spearheaded the conception and development of several substantial software systems, showcasing my prowess in driving innovation and achieving significant milestones.

My track record of consistent achievement, both in technical innovation and leadership, reflects my commitment to excellence in the field of software development and showcases my capacity to deliver impactful solutions on a large scale.

SKILLS



Jeremy Lancaster

Principal Software Engineer

🗅 WORK EXPERIENCE

2022-10 - 2023-12

Principal Software Engineer

Truist, Inc

- Created and lead a companywide Cloud Training Initiative with support from AWS Technical Trainers
- Lead a team of 6 Senior Solutions Architects in the redesign of the digital lending product using a cloud-native approach.
- Assisted in the effort of migrating 100s of blade servers within a traditional data system into the AWS ecosystem.
- Designed and developed a partnership integration with StateFarm using AWS lambdas, API Gateways and other cloud native technologies which realized \$25MM in additional revenue per year.

2021-02 - 2022-10

Senior Software Engineer

Hubspot, Inc

- Migrated our Java hardcoded translation system to an in-house developed i18n translations manager which reduced translation errors by 60% and reduced developer maintenance to 0%.
- Implemented a new API endpoint which provides object-property metadata to >1 million users daily.

2017-04 - 2021-02

Lead Architect

TrackStreet

- Managed a distributed team of 10 developers from across the US and Mexico, conducting code reviews, sprint planning, retrospectives, and project planning. Directly reported to CEO then Vice President of Engineering.
- Rewrote the data collection system to scrapy, python and AWS Cloudnative technologies which resulted in an increase in speed (800%) and reliability (99.87% Success Rate) while decreasing operational costs by 34%.

S3, SQS, Kinesis, ECS/EKS, EC2, CloudWatch, X-Ray, Lambda, API Gateway

SDLC Methodologies AGILE/SCRUM, Iterative, Prototype, Waterfall

() SKILLS

Compliance [SOC2, HIPAA, PCI]	8
Cost Optimization	7
Risk & Talent Management — — — — — — — — — —	8
Process Improvements	9
SaaS/PaaS — — — — — — — — —	10
Strategic Planning	10

• Created a highly-scalable e-commerce data collection system that collects product review data across more than 10,000 websites in under 4 hours of compute time.

2013-03 - 2020-12

Senior Software Engineer

Eureka! Ranch

- Migrated web servers, databases and file storage to AWS from a traditional data center to take advantage of the ease-of-use and scaling opportunities built into AWS while decreasing our operational cost by 48%
- Created an online data visualization/capture system that supported 4TBs of project management data in an easy to digest method.
- Created a WordPress plugin that was designed to match each customer with a custom-made bourbon
- Created a USPTO based patent search system.
 See Notable Technical Achievements for more details

2013-08 - 2017-01

Senior Software Engineer

Branding Brand, Pittsburgh, US

- Made improvements to the in-house DOM parser which resulted in a 20% decrease in development time.
- Optimized several high-profile mobile ecommerce websites that are used by over 1 million people per day reducing page load times on average by 12% (Hot Topic, American Eagle, Rite Aid, Bath & Body Works)
- Used Vagrant, Virtual Box and Docker to setup a standardized development environment for all PHP and NodeJS developers. This inturn reduced

production rollbacks due to environment by 98%.

2010-06 - 2012-07

Senior Software Engineer

Data Conversions, Charlotte, US

- Created an XML Delivery Framework that allowed two development teams to share the same data source. This cut server cost by 60% and increased speed of development by 2X.
- Created a customized caching solution that improved load times by over 400% and reduced bandwidth consumption by over 150%. This resulted in 27% lower monthly server cost.
- Created a customizable reporting system that could be used by both sales and marketing which resulted in lowering our time to acquire a new customer from 6 weeks to 3.
- Created a production test suite which increased our uptime to 99.7% and lowered our after-hours support personnel by 45%

Software Engineer

Digital River

- Created a SOAP Server Library that was in-use by 6 other developers. The library allowed us to speed up the time to delivery by 4X and decrease reported bugs by 9X.
- Created an affiliate tracking pixel that was called over 1 million times per day for proper tracking of hits, conversions, and other data related to the advertisement.
- Created a caching and delivery system for use with the tracking pixel which allowed us to scale passed the current limit of 500,000 records per hour which resulted in a decrease of spending by 150%.

2003-09 - 2020-01

Contract Software Engineer

Jeremy Lancaster Consulting

- Redesigned over 200 client websites that allowed them to properly deliver their products, sales message, or branded information. My clients, on average, saw an increase in lead generation of 40% and increased sales by 25%.
- Migrated over 100 client hosted servers to Amazon Web Services. This saved on average, 50% of operating cost and increased uptime by 30%.
- Created a customizable phone system utilizing Asterisk PBX which allowed the client to fully automate 80% of their current customer service calls thus reducing cost by an estimated 67%.
- Created a customized US patent search engine that would use algorithms created by the client to assign certain monetary value to each patent. This system allowed their clients to select patents that were available for purchase to increase their current innovation pipeline and spur new ideas and products

DOTABLE TECHNICAL ACHIEVEMENTS

CLOUD-NATIVE WEB SCRAPING SOLUTION (02/2019 - PRESENT)

- This was a redesign of an existing system which would retrieve pricing information from several websites. The VI system would crawl roughly 10,000 sites per hour. The technologies used in the original version were PHP, MySQL, and Codelgniter
- The redesigned system took an instrumentation and cloud-native first approach. This resulted in the ability to crawl roughly 100,000 sites per hour with an upper spend limit on containers.
- Technologies Used: Scrapy, python, Golang. The cloud native AWS components are SQS, ECS (Docker), Kinesis, S3, Lambda, CloudWatch (Metrics & Dashboards), Elasticsearch Service and MySQL

PATENT SEARCH SYSTEM (08/2015 - PRESENT)

- This system would use algorithms created by the client to assign certain monetary values to each patent. This system allowed their clients to select patents that were available for purchase to increase their current innovation pipeline and spur new ideas and products.
- Technology Used: PHP, MySQL, Elasticsearch

CUSTOMIZABLE CACHING SYSTEM (03/2011 - 08/2017)

- This system improved load times by over 400% and reduced bandwidth consumption by over 150%. This resulted in 27% lower monthly server cost.
- Technology Used: PHP, In-House Developed Apache Module (C)

🗅 REFERENCES

Dennis Graham

Head of Technology for LightStream | Truist, Inc | 704.900.1936