

Software Development Engineer

Customer-obsessed engineering professional with passion for scouring data to identify patterns and drive data transformation to deliver new, innovative products. History of scaling systems, fixing widespread problems, and restructuring / cleaning code to deliver efficiencies. Reputation for maintaining current knowledge of industry trends, emerging technologies, and internal operations while championing knowledge sharing and collaboration. Well-respected for positive energy and appreciation of open, respectful conversations with coworkers and managers to improve team, guide key strategic decisions, and meet organizational objectives.

Qualifications Summary

- Asynchronous Backend Services
- Building Systems & Products
- Creative Problem Solving
- Software Architecture & Design
- Distributed / Parallel Systems
- Coaching & Mentoring
- Cross-functional Teamwork
- System Testing & Bug Fixes
- Diversity, Equity, & Inclusion

Technical Proficiencies

Languages: PHP/Hack, Data pipelines, C#, C/C++, Java, GraphQL.

Databases: Scope/Cosmos, SQL, LINQ.

Other: Natural Language Processing (NLP) and Machine Learning (ML) experimentation, Big Data processing, Service-oriented deployments (SOA), Agile methodologies, Object-oriented programming (OOP).

Professional Experience

Facebook, Seattle, WA

12/2014 – Present

SOFTWARE DEVELOPMENT ENGINEER – PEOPLE PRODUCTS (2/2017 – Present)

Proactively seek opportunities to improve processes and solve problems, bring visibility and enable consistency in critical areas, and level up overall team performance.

- Saved 8K person-hours / month by defining ML roadmap, establishing funnel metrics, and coordinating team effort to introduce ML models for internal tools optimizing HR Representative responses and enhancing system scalability.
- Created ranking systems matching internal employees with teams during team selection process and finding internal candidates for managers based on team profile / open positions.
- Reduced exceptions from 10% to 2% by creating validation system preventing user errors when submitting open position transactions.
- Boosted memory and performance by 25% by addressing inefficiencies within “type-ahead” queries powering multiple critical tools.
- Partnered with Recruiting to initiate Facebook University program, facilitating opportunities for numerous talented students from all Latin America and created technical mentorship program for underrepresented students applying to Facebook.
- Reused internal framework to run AB testing experiences and gather metrics, connecting coworkers with right point-of-contact and unblocking bottlenecks.
- Implemented General Data Protection Regulation (GDPR) for multiple teams across organization to comply with EU law.

SOFTWARE DEVELOPMENT ENGINEER – EVERSTORE (11/2014 – 2/2017)

Worked collaboratively and independently to exceed expectations while building backup and distributed systems optimizing data storage and retrieval.

- Led efforts to reduce storage space by 60% yielding ~\$30M savings by introducing leading-edge backup system to restore data loss for photos and videos, which replaced first version and provided indexing of backed-up binaries.
- Minimized issues related to data loss across all photos and videos by building distributed system capable of scanning all stored blobs within 24 hours and generate data corruption / unavailable alerts.

Bing (Microsoft), Bellevue, WA
SOFTWARE DEVELOPMENT ENGINEER (4/2012 – 11/2014)

5/2010 – 11/2014

Earned promotion from Intern to Engineer with ownership of enhancing overall results and user experience of local businesses in international markets.

- Analyzed query traffic, effectively measured experiments, and introduced data processors capable of running through Big Data found in query logs and business-related information.
- Designed, prototyped, measured, and deployed linear classifiers to detect user search intentions, rule-based classifiers, and grammar-based components impacting local business results for Germany, Austria, and Switzerland.
- Mined web search log data to identify relevant features through NLP analysis and build scalable ML components for non-US markets regardless of geographical position or language constraints.

SOFTWARE DEVELOPMENT ENGINEER INTERNSHIPS (5/2010 – 4/2012)

Elevated skill and ability to work in ambiguous corporate culture by completing internships in several areas including testing and development.

- Initiated algorithm to predict missing attributes from data providers across multiple Bing domains and created module to select best entity attributes during data acquisition pipeline in Bing Domains.
- Designed, developed, tested, and deployed algorithms to identify irrelevant products from online sellers affecting quality of Bing Shopping results, detect fraudulent sellers, and summarize product reviews into Bing data pipeline.

Additional Experience

Microsoft Laboratory Research Assistant, Tecnológico de Monterrey, Monterrey, Mexico: Defined project requirements, designed and developed SQL database and .Net web services, and supervised capstone projects for Mobile Money online banking system. Tested web application to distribute Microsoft DreamSpark and Faculty Connection keys across Mexican universities and provided support to the clients during deployments and system maintenance.

Education

Master of Science Coursework (Six Months) – Machine Learning & Data Mining
Aalto University School of Science, Helsinki, Finland (Exchange Program)

Bachelor of Science – Computer Science and Technology Engineering (Hons.)
Tecnológico de Monterrey, Monterrey, Mexico

Languages

English (Fluent) | Spanish (Native) | French (Conversational)