Vikash Bajaj

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Head of Engineering and Product

Barcelona, Spain

Agile Head of Engineering and Product with over 10 years of experience in leading the end-to-end development of solutions across key domains such as global fintech, e-commerce, marketing, and data analytics. Having worked on over 50 tech products and applied research, excels at driving product innovation, managing top-tier teams, and launching successful technological solutions.

EDUCATION

Arizona State University, Arizona, USA   **Aug 2015 - May 2017**
  Master of Science in Computer Science

National Institute of Technology (NIT), Tiruchirappalli, India   **Jul 2011 - May 2015**
  B. Tech. in Computer Science and Engineering

SKILLS

Programming:	Python, Golang, Bash, C++
Big Data Technologies:	ETL Pipelines, Spark, Elasticsearch, Hadoop, Zookeeper, Kafka, Apache Airflow
Web Technologies:	Django, Flask, Gin, JavaScript, NodeJS, React, Redux, WebSockets, D3JS, JQuery
Packages and Tools:	PostgreSQL, MySQL, SQLite, MongoDB, DynamoDB, Redis, RabbitMQ, SQLAlchemy, Celery, Nginx, Caddy, Selenium, Kibana, Electron, React Native, Android Studio, Gradle, Jira
DevOps:	CI/CD, Argo CD, Docker, Kubernetes, Helm, OpenShift, Jenkins, Ansible, Terraform, Prometheus, Loki, Grafana, GCE, AWS (EKS, ECS, EC2, ECR, RDS, S3, Lambda, CloudFront, VPC, Kinesis, SES, Opensearch, SQS), OpenVPN, Cloudflare Zero Access, Tailscale

WORK EXPERIENCE

Head of Engineering and Product, goGlocal Private Ltd., *India*   **Apr 2023 – Aug 2024**

Spearheaded the product and engineering for goGlocal's fintech and e-commerce products. Assembled and leading a team of 30 top-tier engineers and product managers.

- Launched goGlocal Payments, a secure, PCI DSS compliant neo-bank focused on cross-border trade (similar to Payoneer), scaling to **$2 million in annual transaction volume within just two months of launch**.
- Initiated and directed the development of goGlocal Export Central, **enabling sellers to list, manage, and fulfill products across more than 50 global marketplaces** including Amazon, eBay, and Walmart using 30+ API integrations.
- goGlocal Export Central has **enabled 300+ brands to go global with 60,000 e-commerce listings worldwide**.
- Created a global checkout solution to enable Shopify and WooCommerce stores to accept payments in over 120 currencies through local rails with Alternative Payment Methods (APMs), **boosting payment success rates to over 90%.**
- Facilitated goGlocal Payments' **achievement of PCI DSS compliance and banking licenses**, ensuring adherence to global financial regulations and standards (VAPT, KYC, and AML screening).
- Led a cross-functional team in developing and optimizing company's Generative AI capabilities (text and image) to generate country and marketplace specific content **leading to 2x improvement in Listing Quality Score (LQS)**.

Software Development Engineer III, Zomato Private Ltd, *India*   **Oct 2022 – Apr 2023**

Headed the supply chain projects at Blinkit to help achieve the company's mission of delivering 100% of orders in 8 minutes.

- Redesigned a legacy warehouse management service into a modern, scalable microservices architecture, leading to a **70% reduction in bugs and 80% fewer failures**, thereby increasing reliability.
- Led the effort to optimize processes across 30 fulfillment centers to **reduce operating cost by millions of rupees annually**.

CTO/Founder, Quant Dynamix Inc., *DE, USA*   **May 2020 – Oct 2022**

Led the company to develop innovative software for enterprises to help increase team and operational efficiency.

- Created an **ERP+MES+BI software for a chemical company with over $40 Million/year in revenue** to streamline the company's sales, orders, manufacturing execution, research operations, and dispatch management.
- Delivered a map-based fleet management web+mobile apps for pool service providers and irrigators to manage resources, operations, and team. **The ML algorithm is helping clients save over 2 million gallons of water every year**.
- Launched a modular cloud-based data platform Quantale, a three-in-one replacement for the entire ELK stack, which **reduces data analytics pipeline setup time by at least 3 weeks for businesses**.
- Architected and led the development of Encome, a stock market discovery, analytics, and trading platform hosted on AWS. Encome allowed users to connect existing trading accounts and trade directly from one unified interface.

Software Development Lead, Decision Theatre, Arizona State University, *USA*   **Jul 2017 – Apr 2020**

Led a diverse team of research engineers and researchers, partnering with experts across academia and industry to deliver 10+ projects. **Secured $600,000 in additional funding** through development of innovative research projects.

- **Precinct Pro Algorithm, Co-Inventor**
  - Invented a patented GIS-based algorithm, now used by election officials in one of the US's largest counties for creating precinct voting maps, drastically **reducing the development time from two months to just five minutes**.
- **Diplomatic Security Training Simulation, Lead Software Engineer**
  - Engineered a web-based solution for the American Academy of Diplomacy, which **trains US Ambassadors via a gamified simulation in 8 hours instead of months,** currently in active use at the Foreign Service Institute, USA.
- **Pulse Data Platform, Project Co-Investigator**
  - Spearheaded and designed a real-time data analysis platform Pulse, consisting of an ETL data pipeline running on Kubernetes to process millions of data points daily. NSF, USDOT, and Adidas funded the project.

Founder, Construe Labs Private Ltd., *India*   **Dec 2013 – Jul 2015**

Implemented software projects along with managing hosting infrastructure for more than 20 clients from around the world **generating a revenue of over $500,000**. Notable clients included:

- **Upwork Global Inc.,** *USA*
  Optimized and automated digital marketing-related tasks for Facebook and Google Ads using API integrations, helping Upwork achieve highly optimized Cost Per Click and Cost Per Acquisition, **saving over $100,000 weekly**.
- **Shopify Inc.,** *Canada*
  Leveraged unique knowledge of private Facebook Marketing API to develop a web application for automating and managing custom audiences, campaigns, and ads on Facebook, eliminating hours of manual work daily.

Software Engineering Intern, Microsoft Inc., *India*   **May 2013 – Aug 2013**

- Collaborated with startups incubated at Microsoft Accelerator to help increase runway by 3-6 months by developing a comprehensive assets management portal.

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- **Third position** in Zomato India Hackathon 2022 for making a one touch food ordering app for Apple and Android watches.
- **Honoured with ASU Sun Commitment Award** for showcasing excellent leadership and mentorship skills.
- **Vision Award 2019**, Knowledge Enterprise, Arizona State University for developing a patented algorithm.
- **First position** in PayPal India Hackathon 2014 for developing a hands-free POS payment system.

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- What Do Parents Value in a Child Care Provider? Evidence from Yelp Consumer Reviews, **IZA Discussion Paper 2018**.
- The 2016 US Presidential Election on Facebook: An Exploratory Analysis of Sentiments, **HICSS 2018**.
- Analysis of sentiment on Facebook during 2016 USA presidential election, **IEEE/ACM 2016**.

─────────────────────── **PATENTS** ───────────────────────

- **Method and Apparatus for Designing Voter Precincts - US20210390650A1, Granted Sept 2023**
  Systems, Methods, and Apparatuses for Implementing a Geo-Demographic Zoning Optimization Engine.
  https://patents.google.com/patent/US20210390650A1/en?oq=20210390650