
Dev Purkayastha

Software Engineer

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EXPERIENCE

New York Mets, New York, NY - *Senior Software Engineer, 2022 - CURRENT*

Internal platforms and tools for data analysis, decision-making and unique workflows, powering a Major League Baseball organization.

- Rewrote the video search service to enable fast multi-faceted search. Used database engineering, schema design, query optimization, UI-driven optimization, data pipeline management, benchmarking scripts, dark launches, and well-defined API.
- Launched data services for new biomechanics dashboard, which features aggregated team metrics, rolling calculations, 3D time-series data. In addition to software engineering, also contributed through data modelling, database design, performance optimization, and technical project management.
- Improved team impact via code reuse (developing reusable generic APIs and code scaffolding libraries) and adopting best practices (including changelog generation, database management scripts, and commit bots for code reviews)

Pear Therapeutics, New York, NY - *Senior Software Engineer, 2022*

Medical apps for treating substance use disorder and insomnia.

- Developed backend microservices and libraries, as part of a migration from a legacy monolith backend.

Google, New York, NY - *Software Engineer, 2014 - 2021*

Online music services (Google Play Music and YouTube Music).

- Developed server-driven UI components through initial design, API development, client integration, and the launch process, resulting in measurable increase in app usage.
- Launched interstitial advertising in the web music client, integrating a complex app with non-deterministic APIs for ads and music. This enabled an ad-supported free tier, and resulted in increased usage and revenue.

EXPERIENCE (cont'd)

Songza, New York, NY - *Software Engineer, 2012 - 2014*

Online music service with personalized playlists; acquired by Google.

Eleven Learning, Cambridge, MA - *Co-founder & CTO, 2009 - 2012*

Educational publishing startup for delivering open-source digital textbooks.

Independent Contractor - *Software Engineer, 2009 - 2012*

Serving different clients, from bootstrapped startups to established companies.

ActBlue/Auburn Quad, Cambridge, MA - *Software Engineer, 2008 - 2009*

Online community fundraising software for nonprofits and political organizations.

Sconex/Sugarloot, Cambridge, MA - *Engineering Manager, 2006 - 2008*

Social networking platform; acquired by Alloy Media & Marketing.

BzzAgent, Boston, MA - *Software Engineer, 2004 - 2006*

Digital marketing by recruiting influencers.

EDUCATION

Harvard University, Cambridge, MA

B.A., Computer Science

SKILLS

Languages: TypeScript, JavaScript, Python, Ruby, Java, PHP, C, C++.

Tools:

- databases and data warehouses (SQL, Postgres, BigQuery, MongoDB)
- data pipelines (Apache Airflow, Cloud Composer)
- cloud platforms (GCP, AWS)
- web frameworks (React, Node.js, Express, NestJS, Rails, Django)
- typed data/API definitions (DDL, JSON Schema, OpenAPI, Protocol Buffers)
- design technologies (Ant Design, Polymer Web Components, CSS)

Methodologies: API design (REST, gRPC, microservices), test-driven development, lightweight documentation, agile software engineering.