Benjamin Guzovsky

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Education

Princeton University   *September 2020 - May 2024*
AB, History, Computer Science minor. **3.8 GPA.**
Coursework: Algorithms & Data Structures, Programming Systems, Machine Learning, AI Ethics, Computational Biology.

Experience

Doorstop Education   *September 2022 – Present*
Founder of EdTech nonprofit — creating interactive digital resources loved by 1,000+ high schoolers
- Independently conducted ethnographic fieldwork at high schools in 15 states, **interviewing 200 students and educators**, observing 250 hours of classes, and publishing a 25-page report on inspiring student agency.
- Designed and developed Doorstops (Python, JS), 95 novel strategies students use to fix what sucks about school.
- Shaped the Doorstop product life cycle end-to-end: writing 50k lines of code, transforming peer-reviewed research into interactive, digital experiences, running **90 beta tests,** and scaling to **700k views** on $0 in ad spend.
- Built robust anti-spam software, multiplayer game features, personalized learning flows, and dozens more tools.
- Deployed machine learning algorithms to match students with Doorstops, minimizing cost by running it client-side.
- Prototyped *OpenSchool* (Django, MySQL), synthesizing opaque datasets on NYC's 700 high schools and identifying proxy metrics (e.g. get teacher retention by comparing NYC teacher pay scales to school finance data).

Bismarck Analysis   *May – September 2022*
Research Analyst at political risk consultancy
- Developed technical fluency on Industrial Control Systems and cybersecurity to write reports for **10,000 readers**.
- Analyzed cyberattack disclosures to make actionable conclusions on Israeli military cyber warfare capabilities.

Perrfy   *May – August 2021*
Product Manager at early-stage web development startup w/ $1m funding
- Roadmapped and pitched a pivot from B2C to B2B based on data-driven insights and UX interviews, **boosting conversion rates by 40%** — Perrfy (now called Spekto) continues to use the B2B model.
- Optimized 100 webpages, reshaping design and rewriting content; researched and wrote 40 technical blog posts.
- Managed 12 independent contractors, synthesizing programming, design, and marketing needs to prioritize tasks.

Columbia University   *May – August 2021*
AI Researcher working with postdoctoral CS team
- Built an AI-powered thesaurus for creative writers (Python, AWS Lambda) trained on famous literature with part of speech detection and text classification algorithms; preferred over Oxford Dictionary synonyms in 19 of 20 cases.
- Leveraged fastText, precursor to today's LLMs, processing 200,000 100-dimensional vectors in seconds.

Projects

- **Open Source Prompt Engineering Splitscreen** (Node.js) with 40 active users and <1s response time (Dec 2023).
- **Google Doc to Website Builder** (Flask, SQL, Google Cloud) that syncs content from Google Docs (Apr – May 2023).
- **Analyzed the low earth orbit satellite market for KVH**, sharing slides with 500 employees (Feb 2022).
- **Web scraped ebook library** (Python, beautifulsoup) as a lead magnet for $1M+ annual revenue startup (Jan 2023).
- **Published one pager on managing impacts of LLMs** on two-sided marketplaces like Fiverr and UpWork (Jan 2023).

Skills

Programming: Java, C, Python, SQL, React, Typescript, JavaScript, Node.js, Tailwind CSS, HTML, AWS Lambda.
Technical Skills: Figma, Illustrator, & Photoshop; Scrum & Agile Development; Office Suite & Excel.
Languages: Fluent in Russian with experience in translation & intermediate in Mandarin.