Bruno Vieira | Application for Staff Software Engineer

Bioinformatician turned full stack developer.

Hey 👋, I know you're *"not making breakthrough medical discoveries"* but hear me out! I've worked for biotech companies trying to make those *"breakthroughs"* and I would say to never underestimate good UI/UX. Especially when tackling hard problems like biological sciences, the last thing the users (scientists/researchers) should have to worry and think about is the UI. Therefore, I would say your work to build tools that make it easier to create great UIs is critical! You also lower the barrier of entry for anyone (including scientists) to build better websites and apps for their specific niche area. Therefore, I would be honoured if given the opportunity to join the company that not only "*makes the thing they use to build the ChatGPT interface*" but also potentially "*the thing*" for the next "*app*" that will cure cancer (no pressure).

What you're excited about, *and the work you'd be most looking forward to in this role.*

I've been doing full stack Node.js/JavaScript, Python, R, shell scripting for more than 10 years in biotech and I feel like I need a change and to try something outside my comfort zone. I would be looking forward to working in a small team of very talented and technical people focused on UI and learning from it. I also want to learn and do more Rust (been playing with Tauri). I'm very excited at the possibility to go back to contributing more towards open source and doing some community management.

Interesting projects you've worked on, *especially things that are relevant to the work we do here.*

- I've used chevrotain.io to build an internal company parser for the Nextflow.io DSL used at Lifebit.ai.
- I've worked a lot with Node.js Streams to build data processing pipelines.

- My first full stack Node.js project was the web infrastructure for a 1500 people conference.

***Open-source contributions**, whether it's your own project, a pull request you're proud of, or a well-written bug report you filed.*

- Founded Bionode.io, an open-source community project to build modular tools for bioinformatics in Node.js
- Won a Mozilla Science fellowship (one of four, out of 483 submissions) to champion Open Science and Open Source around the world
- Worked closely with the Dat team (NodeJS peer-to-peer protocol) and Code for Science & Society
- Worked with Stencila.io (interactive documents) on Dockta (container image builder for researchers)

***Previous experience**, especially any leadership responsibilities you've held in other roles.*

- Co-CTO at Resurgo Genetics (small precision medicine start-up)
- Mentored 3 Google Summer of Code Students for Bionode.io
- Mentored EchoBurst and Hydrogen for Mozilla Science Lab fellowship

***Technical writing**, like blog posts you've published or documentation you've worked on.*

- At Lifebit.ai I write routinely several Technical Design Documents, reports, documentation, acceptance criteria, QA instructions, etc.
- I've also written some blog posts, here's one about my Journey into Becoming a Mozilla Science Lab fellow.
- Documentation for the Bionode.io project: https://doc.bionode.io
- Research papers I've co-authored: https://www.linkedin.com/in/bmpvieira/details/publications/