Brian David Mayo

INFO

Location: Munich, Germany
Github://protiumx
LinkedIn://bdmayo
Dev.to://protium
Medium://@protiumx

EDUCATION

FAMAF
National University Of Córdoba
BSc. in Computer Science
BSc. in Physics
(Incomplete)
2017-2019 | Córdoba, Argentina

UNJU
National University Of Jujuy
Computer Engineering
(Incomplete)
2011-2013 | Jujuy, Argentina

COLEGIO SANTA TERESITA
Highschool
Grad. Dec 2010 | Jujuy,
Argentina

COURSEWORK

(With completion certificates)
Rust Development
Web Development with Golang
Modern React
Kubernetes Microservices
Deep Learning A-Z
Harvard CS50

SKILLS

PROGRAMMING
TypeScript • Go • C/C++ • C#
Python • Rust • Shell • HTML/CSS

INFRASTRUCTURE
Docker • Kubernetes • GCloud
gRPC • Kiali • Istio • ELK
Prometheus • Nginx • RabbitMQ

STORAGE
PostgreSQL • MariaDB • MySQL
Cassandra • MongoDB • Redis
Real Time Database

EXPERIENCE

KIRINUS HEALTH | Senior Software Engineer
Aug 2021 – Present | Munich, Germany | Online Psychotherapy Platform B2B, DiGA

- Migrated existing REST API from **NodeJs/TypeScript** to **Go**.
- Defined **Go** conventions and best practices based on industry standards.
- Implemented **authz** layer with Go and Istio/Envoy over gRPC.
- Increased test coverage of existing NodeJS projects.
- Integrated multiple NodeJs repositories into a **monorepo** with **Yarn 2**.
- Migrated existing React projects to **Webpack** and TypeScript
- **Tech Stack:** NodeJS, ReactJS, Typescript, JWT, Web Sockets, Jest, ExpressJS, Go, RabbitMQ, Temporal, Kubernetes, PostgreSQL, GCloud, Github Actions, Argo CD, Sentry

MINDDOC HEALTH | Senior Software Engineer
Aug 2019 – Jul 2021 | Munich, Germany | Online Psychotherapy Platform, Mood Tracker, B2C, DiGA

- Split existing monolithic API into microservices, from Express to NestJS and gRPC for internal communication.
- Developed multiple Web applications with **VueJS** for the online therapy platform, including a full-featured calendar, real time chat and video calls.
- Prepared and executed UI refactor for the main platform
- Split monolithic web app into different applications to handle login, patients, practitioners and admins.
- Developed mobile client with **Flutter**.
- Maintained microservices built with **NestJS** (calendar, courses and authz services).
- Developed **github actions** to improve company **CI/CD** workflows.
- Created **YTT YAML** templates to share common CI/CD setup among different projects.
- **Tech Stack:** NodeJS, VueJS, Typescript,m Go, JWT, Web Sockets, Jest, NestJS, Kubernetes, PostgreSQL, GCloud, Github Actions, Sentry

SIA INTERACTIVE | Senior Software Engineer | R&D
Jun 2016 – Jul 2019 | Buenos Aires, Argentina | Digital Signage Platform & Games

- Developed a cross-platform multimedia player for web, mobile, desktop, and TV (Tize, WebOS), with video wall synchronization, hardware controls and streaming (udp, rtp).
- Migrated SPA from jQuery to **PolymerJS**.
- Developed a **UDP** low-latency media player synchronization system with NodeJS.
- Integrated **LibVLC** in **Android** mobile app for video streaming.
- Embedded **NodeJS** in Android mobile app with a **websockets** server.
- Developed REST APIs using **ASP MVC** and **ServiceStack**.
- Built a multimedia player with **Qt5 C++** for Windows.
- Built a small HTTP 1.1 server with **C++** for Windows.
- Maintained media player built with **.NET Windows Forms**.
- Owned and delivered small side projects built with **ReactJS** and **VueJS**.
- Researched new web technologies that could improve or provide great new feature to the product.
- **Tech Stack:** NodeJS, Vue, React, JWT, Web Sockets, TypeScript, Android, CordovaJS, .NET ASP, WebOS, Tizen, Azure, NewRelic. Bitbucket

OPENIX | Chief Technology Officer | Senior Software Developer

Dec 2015 – May 2016 | Jujuy, Argentina | Outsourcing & SaaS

- Owned and delivered projects for different clients as Senior .NET Developer.
- Set engineering culture (tech stack, testing, code reviews, CI/CD, etc)
- Performed technical interviews.
- Acted as Tech Lead for a group of 6 developers working in 3 different projects.
- Set up conventions and best practices for .NET ASP projects.
- Designed and developed features in a transportation tickets system built with **Django**
- **Company size:** 9 people
- **Tech Stack:** JavaScript, RoR, Django, .NET, Unity, Heroku, AWS, Azure. Github, Bitbucket

OPENIX | .NET ASP MVC Instructor

Jan 2015 – March 2015 | Jujuy, Argentina

- **ASP MVC** Instructor for a team of 10 developers with different backgrounds.
- Course program: basics and essentials of web development with **.NET ASP**, including database manipulation, ORM frameworks, HTML templates, CSS and JavaScript.

VEMN | Fullstack Software Developer

Dec 2014 – Dec 2015 | Jujuy, Argentina | SaaS

- Developed a server-monitoring system with **.NET WCF, ASP** and WinServices.
- Built charts and real time visualization of server incidents with **SignalR**
- Developed an appointment system for a private clinic with **ASP MVC**.
- Developed a freight tracking system to optimize delivery and route tracing
- **Tech Stack:** .NET C#, Windows Server, MSSQL, WTFS, JavaScript. Entity Framework Code First

FREELANCE SOFTWARE DEVELOPER

Jan 2013 – Sep 2014 | Jujuy, Argentina

- Developed custom Wordpress plugins with **PHP**
- Developed small games for **Android** and **Windows Phone**
- Created websites with .NET ASP and jQuery/BackboneJS.
- Setup Linux servers for small companies

BINMOTION | Intern Software Developer

Mar 2012 – Sep 2012 | Jujuy, Argentina

- Developed website with **ASP .NET** and **Silverlight**
- Developed Interactive **XNA** games with Microsoft Kinect SDK ([showcase](#))
- **Tech Stack:** .NET C#, Windows Server, MSSQL, JavaScript