



RADU MARIAS

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SUMMARY

Dedicated Rust Developer with expertise in concurrency, file systems, networking, and APIs, along with Java experience in protocols like SSH and FTP. Skilled in SQL databases such as PostgreSQL and MySQL and experienced in web applications using GWT and technologies like Quark's and Elasticsearch. Currently developing an open-source encryption file system project with FUSE for secure cloud synchronization. Proven ability to create Android apps for data synchronization and a background in mobile device metrics collection at Danger Inc.

SKILLS

- Programming Language
- Databases
- Protocols
- Concepts: Object-Oriented Programming (OOP)
- Frameworks/Technologies
- Effective Communication
- Team Collaboration
- Problem-Solving
- Adaptability
- Time Management

EXPERIENCE

Senior Software Developer / Freelance

03/2023 - Current

- SyncOxiders provided an encrypted cloud file sync, share, and backup solution to improve data security. GitHub | Official Site
- RencFs: Used FUSE on Linux to create an encrypted file system that allowed for the construction of secure directories for secure backups on untrusted servers. GitHub
- RencFs GUI: Work on a graphical user interface for RencFs began. It is now supported by Windows, macOS, iOS, and Linux, and will ultimately be available for use on other operating systems. GitHub
- RencFs Daemon: Designed as a systemd service, it enables setup via YAML files for easy maintenance and integration. GitHub
- Using the Ring library, REncrypt is a Python encryption library that was developed and implemented in Rust. It is fast and supports AEAD with AES-GCM and ChaCha20Poly1305. GitHub

Software Architect / AppScenic

03/2022 - 02/2023

- Architectural Design: Led the design and implementation of a scalable microservices architecture, improving system performance by 30% and enabling seamless integration of new features.
- Technology Evaluation: Conducted thorough evaluations of emerging technologies and tools, successfully recommending solutions that enhanced development efficiency and reduced operational costs by 20%.
- Cross-Functional Collaboration: collaborated with product managers and development teams to define technical requirements and ensure alignment with business objectives, resulting in a 25% reduction in time-to-market for new features.
- Mentorship and Leadership: mentored junior developers and engineers, fostering a culture of continuous learning and knowledge sharing, which improved team productivity and morale.
- Code Review and Quality Assurance: Established best practices for code reviews and automated testing, leading

to a 40% decrease in production defects and enhancing overall software quality.

Software Architect Project Lead / REDCap Cloud

01/2019 - 03/2022

- Design and Development: Architect and prototype new and existing modules using Quarkus, Java 8 & 11, and J2EE; lead implementation as tech lead for back-end and Android teams.
- Collaboration: Work with DevSecOps and QA teams for CI/CD and automation, employing tools like Jenkins and GitHub Actions.
- Application Deployment: Build and deploy applications, such as a CSV processing app and a gateway proxy for OpenAPI REST APIs, on OpenShift.
- Onboarding and Management: Conduct interviews and facilitate the onboarding of new developers, leveraging skills in MicroProfile and Elasticsearch for effective integration.
- Security and Infrastructure: Implement security protocols using SSO, SAML, OpenID Connect, and JWT, while utilizing Docker, AWS Serverless, and Kubernetes for robust service management and observability.

Principal Software Engineer / REDCap Cloud

09/2016 - 01/2019

- Developed scalable software solutions with a focus on reliability and high performance for cloud-based applications.
- Oversaw cross-functional teams, encouraged engineers to work together and innovate, and mentored them using agile approaches.
- RESTful APIs were created and maintained to enable smooth integration with other services and guarantee data compatibility.
- Protected sensitive research data and upheld user confidence by implementing compliance procedures and security best practices.
- Monitoring and tuning have optimized application performance, and DevOps procedures and CI/CD pipelines have been promoted for effective deployments.

Senior Software Developer / Candor GRC

09/2011 - 08/2016

- Developed several GWT apps with Jetty, Guice, JPA, Shiro, and PostgreSQL on the client and server sides. REST was used to expose services.
- I worked as the lead developer on applications that made use of GWT, Elasticsearch, ActiveMQ, Camel, and email and SMS communication clients.
- Oversaw the design and implementation of Android application development projects.
- Large-scale data analysis, investigating Hadoop ecosystem options such as Spark, HBase, Apache Phoenix, CitusDB, Greenplum, Trafodion, Cassandra, and MongoDB.

Developer / Cognizant Softvision

05/2007 - 08/2011

- Developer at Danger Inc., contributing to the early development of the Android OS.
- Created Java applications, including FTP and SSH clients, as well as social media clients for Twitter and Facebook, while optimizing network communication core classes and resolving crashes in C and ARM layers.
- Addressed bugs in the radio module, ensuring stable device performance.
- Led the migration project from cloud-based internet access to standalone device connectivity, redesigning the architecture to eliminate reliance on proxy servers for browsing, email, and chat.
- Oversaw development of various Android applications, enhancing functionality and user experience.

Senior Software Developer / SoftZone

02/2005 - 05/2007

- Led development of Java stand-alone and web applications using Tapestry and J2EE frameworks.
- Designed software for an electric grid schema editor that analyzes CAD files, employing neural networks to identify entities and save connections to real-world electrical equipment.
- Developed applications using .NET 1.1 and 2.0, contributing to various projects.

- Collaborated with cross-functional teams to ensure seamless integration and functionality of applications.

Web Developer / OfficeINN SRL

10/2004 - 02/2005

- Created web pages utilizing PHP, HTML, JavaScript, and CSS for dynamic content.
 - Customized Zen Cart to integrate various modules, enhancing the e-commerce platform's capabilities.
 - Delivered support for web hosting, addressing client technical issues, and optimizing website performance.
 - Collaborated with clients to understand requirements and implement tailored web solutions.
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EDUCATION

Master's Degree: Object Oriented Programming
Babes-Bolyai University

01/2007

Master of Computer Applications (MCA): Computer Programming
Universitatea de Nord din Baia-Mare

01/2006

LANGUAGES

French: First Language

CERTIFICATIONS

- J Paint: Best project of the year, North University of Baia Mare, Romania, 05/01/05, We implemented a solution that lets you import CAD files and edit them.