



Andrei-Ciprian **Barbuta**

SOFTWARE ENGINEER

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Summary

Driven and adaptable Computer Science graduate with hands-on experience in both frontend development and cloud support engineering. I have contributed to secure, real-world Angular applications and provided advanced technical support for Apigee X and Hybrid platforms at an enterprise level. Skilled in cloud-native technologies, API management, and modern development frameworks, I thrive in dynamic, fast-paced environments where learning and innovation go hand in hand.

Education

Babes-Bolyai Faculty of Mathematics and Computer Science

Cluj-Napoca, Romania

MASTER'S DEGREE IN SOFTWARE ENGINEERING

October 2023 - April 2024

- Relevant coursework: Agile Methodologies, Programming Paradigms

BACHELOR'S DEGREE IN COMPUTER SCIENCE

October 2020 - July 2023

- Relevant coursework: Data Structures and Algorithms, OOP, Networking, Web Development, Machine Learning
- Thesis: **Tuner and Tab Writer for Guitar Using Note Detection Algorithms**

Work Experience

Cognizant Softvision

Bucharest, Romania

CLOUD ENGINEER L1 - GCP

May 2024 - September 2025

- Provided advanced technical support on over **200 tickets for Apigee X and Apigee Hybrid platforms** across both **production and development environments**.
- Monitored cloud-native platforms using **Google Cloud Logging**, and metrics dashboards to track **API traffic, service health, and latency across** distributed environments.
- Handled role-based access and permission issues, **troubleshooting IAM, service accounts, and policy configurations** affecting API access and platform operations.
- Troubleshooted Apigee Hybrid installation and upgrade issues, **identifying problems across Kubernetes clusters, runtime components, and configuration dependencies** to restore platform functionality.
- Diagnosed and resolved networking-related issues, including **VPC connectivity, firewall rules, load balancer behavior, and hybrid communication paths** between on-prem and cloud environments.
- Collaborated closely with **engineering teams** to reproduce, analyze and escalate bugs and service outages, ensuring efficient resolution.
- Maintained and continuously improved the internal documentation, enabling **faster incident resolution** and strengthening team knowledge sharing. Created a **React**-based project tool for highly efficient documentation tracking.
- Managed high-priority incidents and ensured strict **adherence to SLA (Service Level Agreement) commitments** for enterprise-level clients.
- Technologies used: **Apigee X / Apigee Hybrid, Google Cloud Platform** — IAM, Cloud Logging, Cloud Monitoring, Kubernetes, **Google Cloud Networking** — VPCs, HTTP(S) Load Balancers, Terraform Modules **Apigee**.

Accenture Industrial Software Solution SA

Cluj-Napoca, Romania

FRONTEND DEVELOPER INTERN

August 2022 - November 2022

- Participated in the design and development of a **secure, Angular-based frontend application** for **API key management**.
- Collaborated with cross-functional team members to translate technical requirements into **scalable, user-friendly UI components**.
- Implemented **best practices** in **TypeScript** and **Angular** to ensure **maintainable, modular, and high-performance code**.
- Actively contributed to **code reviews and iterative improvements**, enhancing **application stability** and **user experience**.
- Technologies used: **TypeScript, HTML5/CSS3, Angular, REST APIs, Docker**.

Coding Projects

Real-Time Multiplayer Chess Platform

- Built a **real-time, full-stack multiplayer chess platform** with an **authoritative server-side** game logic and **WebSocket synchronization**.
- Implemented full chess ruleset including **legal move generation**, turn validation, and **check/checkmate detection**.
- Modeled the game using a **centralized match state**, containing the chessboard, players, assigned colors and legal moves, **ensuring consistency across players and preventing client-side cheating**.

- Developed dynamic frontend logic for piece selection, **legal move highlighting**, board updates, and turn enforcement.
- Implemented **full move lifecycle**: move validation, board mutation, legal move recomputation, state broadcast.
- **Clean separation between game rules and UI** rendering for **Maintainability** and **Scalability**.
- Implemented **secure authentication** with **access tokens** and **HTTP-only cookie based refresh tokens**, including protected socket connections by using **authentication middleware**.

• Key Challenges Solved:

- Prevented client-side cheating via **server-validated moves**
- Synchronized shared **game state** across multiple clients
- Managed **real-time updates** with strict **turn enforcement**
- Maintained **persistent connections** using **JSON Web Tokens**

- Technologies used: **Express.js, React, Typescript, CSS3, HTML5, Socket.IO, JSON Web Token**

Personal website portfolio

- Personal **portfolio website** showcasing projects, technical skills, and professional background, built with **React** and **modern frontend practices**.
- Focused on **responsive design, performance optimization**, and **clear presentation of content**.
- Implemented **CI/CD** with **GitHub Actions**, automating build and deployment to GitHub Pages, ensuring updates are live on every push.
- Technologies used: **React, Typescript, CSS3, HTML5, Github Actions**

Modular Dashboard

- React application built for learning purposes that features a metronome, counter, timer and image generator. Emphasis on **reusable components and clean architecture**.
- Designed an intuitive UI for seamless user interaction and flexible functionality.
- Technologies used: **React, Typescript, CSS3, HTML5**

Note-Wizard - Tuner and Tab Writer for Guitar Using Note Detection Algorithms

- Bachelor's Thesis JavaFX application which combines a **digital guitar tuner and real-time tab writer**, leveraging **FFT (Fast Fourier Transform) and signal processing** for accurate note detection.
- Created a user-friendly interface with JavaFX, **enabling musicians to tune and transcribe music seamlessly**.
- Technologies used: **JavaFX, TarsosDSP**

Skills

- **Backend and Scripting** - Node.js, Express, C++, Java, JavaFX, C#
- **Frontend Technologies** - JavaScript, TypeScript, React, Next.js, HTML5, CSS3, Angular
- **Databases** - SQLite, PostgreSQL
- **Cloud and API Platforms** - Google Cloud Platform, Apigee X and Hybrid
- **Tools** - Git, Linux, Docker, Github Actions, Gitlab, Terraform Modules
- **Problem Solving and Analytical Thinking**
- **Collaboration and Empathy**
- **Adaptability and Attention to Detail**

Languages

- **Romanian** - Native
- **English** - C1
- **German** - B1

Extracurricular Activity

Hermes Society Students UBB

Cluj-Napoca, Romania

VOLUNTEER

- Demonstrated **teamwork, leadership, and organizational skills** while coordinating tasks and assisting peers.

Untold

Cluj-Napoca, Romania

VOLUNTEER

- Assisted in **event coordination, crowd management, and on-site support**, ensuring a smooth and safe experience for attendees.