Zoltán Majoros

Software Engineer

Bonn, Germany

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GENERAL

Zoltán is an experienced software engineer with a diverse range of skills, primarily focusing on game development using Unity. He has worked on multiple released game titles, providing him with a strong understanding of the full application development cycle, from inception to release. Working in small teams and high responsibility roles, he has been in charge of handling a wide variety of tasks, giving him strong fundamentals in multiple areas of Unity development. His highly self-motivated nature and skillful communication allow him to work effectively in remote positions. With over 5 years of expertise in Unity development, Zoltán possesses hands-on experience in developing mobile applications as well.

EXPERIENCE

Self-employed, Bonn - Software Engineer (2023 - present)

Projects, roles:

- **Unannounced project**, *multi-platform simulation software (C++)*
 - Architecture design & implementation.
 - Image processing.
 - High-performance optimization using SIMD intrinsics.
 - Shader programming.

TeamViewer, Remote / Munich - Software Engineer (2022 - 2023)

Projects, roles:

- Frontline Spatial Workplace, enterprise multiplatform augmented reality productivity application (*Unity* Hololens, iOS, Android).
 - o Implementing new features (both user-facing and backend), fixing bugs.
 - Conducting 2nd round (technical) and 3rd-round (team fit) interviews.

- Mentoring new hires and junior team members through weekly jour-fixes, pair programming sessions, and more.
- Contributing to a comprehensive refactoring effort for the product application, starting with redesigning the application architecture to accommodate the latest customer requirements.
- Leading an initiative to improve the team's pull request-related workflow, organizing guest talks from other teams within the company to gather and implement best practices.
- Evaluating open-source libraries for internal use, implementing public patches and fixing bugs.

Self-employed, Bonn - Software Engineer (2022)

Projects, roles:

- Custom trading application, multiplatform financial trading application (Unity).
 - Design and implementation of application architecture.
 - Multithreaded, real-time data exchange with broker API via WebSockets.
 - UI + visualization of candles/tick data.

Brainseed Factory / Bigitec, Bonn - Game Developer (2020 - 2022)

Projects, roles:

- Muslim 3D, a 3D educational video game (Unity Windows)
 - Hired as the lead developer to oversee the software architecture design and development of the rebooted Muslim 3D project. Starting from scratch, I designed and implemented fundamental game systems, such as state management, dialogue, quests, input, UI, inventory, localization, and audio, among other features.
 - Developed various editor tools to enhance development efficiency.
 - Helped in hiring and building the development team.
- The 7th Axe, a 2.5D action-platformer game prototype (Unity Windows)
 - Worked on numerous game systems and tools to help the project progress through a time-constrained development process and reach a successful finish.

Senselab.io, Cologne / Remote - Software Developer (2018 - 2019)

Select projects, roles:

- Training application for Hololens, a mixed reality application developed for TÜV
 Rheinland to aid lecturing and examination for operating specialized
 heavy-machinery equipment. (Unity)
 - Researched and developed novel UI/UX paradigms and custom UI elements to maximize accessibility for users with no prior experience in Mixed Reality technologies.
 - Implemented marker-based positioning and location sharing.
 - Responsible for architecting and implementing the application from early conception to final release, incorporating client feedback.
- eMobility Hololens application, a mixed reality experience for an industry client to showcase their product portfolio at trade fairs for potential customers. (Unity)
 - Created a multi-user, peer-to-peer experience using multiple Hololenses (guide/attendees).
 - Developed UI logic, animations, and UX.
- VR Commercial Experience for AXA, a mobile VR application for the Oculus GO (Unity)
 - Responsibilities: UI programming, animations via Timeline, shader effects, NavMesh-based NPC behavior.

Brainseed Factory, Bonn - Game Developer (2017 - 2018)

Projects, roles:

- Squishies, a VR puzzle platformer for PC and PlayStation VR (Unity)
 - Responsible for a wide range of tasks from conception to implementation, including but not limited to: gameplay logic, NPC behavior, shaders, visual effects, performance optimizations, UI, and level design.
 - Worked in a small agile team, utilizing SCRUM, conducting daily standups, operating in two-week sprints.
 - Gained experience in relative estimations of user stories and managed feature/bug balancing during sprints. Project successfully met all deadlines and milestones.

Freelance, Bonn - iOS Application Developer (2009-2017)

- Last project: Custom augmented reality application for iOS (Native)
 - Developed a native Augmented Reality application to scan 3D indoor spaces using a dedicated 3D scanner, analyzing scene features to assist work at construction sites.
 - Utilized the **structure.io SDK** on top of SceneKit to implement environment scanning, movement tracking, and scene recognition features.
 - Written in Swift & Objective C.

SKILLS

General

- Efficient and productive when working as part of a remote team.
- Experienced in conducting code reviews, well-versed in pull-request-based workflows.
- o Self-motivated, independent problem solver.
- Very strong interpersonal and communication skills.

Unity Development

- Adept at writing high-performance C# scripts.
- Experienced in developing for mobile, traditional desktop 3D, mixed-reality, and virtual reality platforms, targeting Hololens, Oculus/Meta, and PlayStation VR headsets.
- Experienced in architecting large-scale applications with a focus on modularity, performance, and maintainability using data-oriented design.
- Skilled in creating editor tools to improve development efficiency for the entire team.
- Well-versed in performance-profiling, optimizing, dealing with CPU- and GPU-bound bottlenecks.
- Skilled in creating user interfaces, integrating UI assets created by artists.

General software engineering skills

- Very strong focus on writing clean, stable and maintainable code.
- Knowledgeable about a wide array of design patterns.
- Solid understanding of low-level computer architecture.
- Extensive knowledge of performance-related best practices.

• Other technical skills

- o C, C++
- Swift, Objective-C
- o Git, Plastic SCM

EDUCATION

Vienna University of Technology, Austria - Software Engineering (2008-2009)

Software & Information Engineering via the CEEPUS scholarship program for two semesters as an exchange student.

University of Miskolc, Hungary - Information Engineering (2002-2008)

Information Engineering MSc. After the third year, I specialized in Application Development. Our studies focused on natural sciences, engineering, and both general and applied informatics.

LANGUAGES

English: fluent

German: conversational

Hungarian: native

OTHER SKILLS

- Easygoing team player with strong social and communication skills.
- Able to learn new technologies quickly.
- Independent problem-solving abilities.
- Capable of conducting technical interviews and assessing candidate skills for hiring decisions.
- Curious about new and emergent technologies.
- Committed to ongoing professional and personal self-development.

HOBBIES

- Playing guitar.
- Music composition and production.
- Reading.
- Demoscene.
- Skateboarding.
- Sports (table tennis, frisbee, cycling).