Kühn András Gábor

Personal info

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Professional experience

Experience Summary:

I'm a professional with over a decade of diverse experience spanning various fields, ranging from professional photography, 3D visualization, full-stack software development, to machine learning. I have a track record in leadership roles, including CEO of a tech startup, where I led a complex multiplayer online game development project, later as CTO of a startup doing AI powered industrial data management and SaaS solutions. I have experience in business negotiation, project management, but am my very best at creative design and problem-solving, aided by a strong technical background in full-stack development, graphics programming and data science. I excel in multicultural environments. Committed to continuous learning and improvement, with an eye for detail and a passion for technology and innovation.

2020 – Present: Data Science, Machine Learning, Full-Stack Developer & Acting CTO at Pzartech Ltd.

- Initially joined as a freelance developer; currently acting as CTO, overseeing all technical development and architecture.
- Leading the development of web-based data management software and SaaS solutions for ERP systems.
- Responsible for Azure cloud resource deployment, DevOps project management, and CI/CD pipeline implementation.
- Spearheading .NET Blazor Razor pages projects with MAUI multiplatform build targets.
- Collaborating on strategic planning, technical decision-making, and future company growth, including a potential equity stake based on contributions.
- Key contributions include SAP integration prototype, ElasticSearch analytics, Azure storage management, development and implementation of visual search and OCR solutions.

[Go to web development project](#) [↓]

[Go to machine learning projects](#) [↓]

2011 – Present: Freelance Professional (Photography, 3D Graphics, Web Design, Architectural Visualization)

- Built a versatile freelance career working across photography, 3D visualization, web design, and architectural rendering.
- Worked on interactive, real-time 3D visualization projects using Unreal Engine 4 and Blender for both personal and client projects.
- Developed custom software and visual content for architectural clients, real estate businesses, and various small enterprises.
- Handled marketing, business negotiation, and client relations independently to maintain a diverse client base.

2014. – 2020. Stoneglass Labs KFT., Szeged (CEO)

Headed a software development team in a small company developing an ambitious online multiplayer game.

Selected Projects

Studies

- **Business Coaching** *(2013 – 2014)* Basic business workflow and management training through Támop 2.3.6 grant.
- **Tripont Light Academy 1-2-3** *(2011 – 2013)* Comprehensive training in lighting techniques, various photography disciplines, and project management.
- **SZTE JGYPK, Web Programmer Certificate** *(2010 – 2011, Incomplete)* Gained foundational skills in web development, including HTML, Java, SQL, and graphic design. Lost interest and shifted to photography and entrepreneurship.
- **SZTE TTIK, Computer Engineering BSc.** *(2008 – 2010, Incomplete)* Attended courses in programming (C, Assembly), computer architecture, discrete mathematics, and algorithms. Did not complete the degree, switched career focus.

Personal skills and competencies

Technical Skills:

- **Programming Languages:**

    - **Experienced**: C#, Blazor,Razor, Python,
    - **Proficient**: C++, HTML, CSS, Angular, SQL, PHP
    - **Familiar**: Java, Javascript, C, Assembly, Google Script, TypeScript,

- **Software and Tools:**

    - **Experienced**: Adobe Lightroom & Photoshop, Blender 3D, Unreal Engine 4, Unity 3D, .NET Core, Blazor, Azure DevOps, MongoDB
    - **Proficient**: Substance Painter, Substance Designer, ZBrush, SketchUp, V-Ray
    - **Familiar**: SolidWorks CAD, ArchiCAD, Catia, Fusion 360

- **Machine Learning and Data Science:**

    - Practical experience with synthetic data generation, data preprocessing, and augmentation using industry-standard tools.
    - Proficient in developing and optimizing ML models for image recognition, object detection, and classification, with hands-on experience in model evaluation and tuning.
    - Regularly utilize AI tools (ChatGPT, Copilot) for hyperparameter tuning, training optimization, and debugging.
    - Adept at deploying and integrating ML models with Azure cloud services and aligning them with SaaS architecture.

- **Web Development:**

    - Full-stack development (Blazor, .NET, PHP, Angular)
    - Responsive UI design (MudBlazor),
    - Database management (MongoDB, SQL)
    - API integration and server-client communication
    - Azure cloud services and DevOps deployment

- **Creative Design:**

- 2D/3D asset creation
- UI/UX design
- Visual storytelling
- VFX, shaders, and procedural/parametric modeling

Professional Skills:

- **Project Management:** Experience managing projects from conception to completion, including software development, marketing campaigns, and creative projects. Familiar with Agile methodologies and Azure DevOps for CI/CD pipeline management.
- **Business and Negotiation:** Experience in business negotiation, client management, and corporate administration. Skilled in developing and executing strategic business plans.
- **Creative and Design Skills:** Strong background in creative design, including 2D/3D asset creation, UI/UX design, and visual storytelling for gaming and simulation. Experienced in VFX, shaders, and procedural/parametric modelling.

Soft Skills:

- **Leadership:** Proven leadership experience managing cross-functional teams in mostly startup environments. Capable of mediating conflicts and fostering a collaborative workplace.
- **Communication:** Fluent in English (C2) and beginner in German (A1). Skilled in clear and effective communication with both technical and non-technical stakeholders.
- **Problem-Solving and Adaptability:** Strong analytical skills with a demonstrated ability to solve complex problems and adapt to new challenges. Comfortable learning new technologies and tools independently.

Interests

Creativity and Design

A strong passion for creativity, from early engagement with legos to advanced 3D visualization and design. This passion drives my innovative approach in software development and digital design.

Mechanics and Electronics

Enthusiastically build functional machines, robots, and electronic devices. This hands-on experience enhances my understanding of hardware-software integration and IoT development.

Technology and Futurism

Deeply interested in emerging technologies and their potential impacts on society, such as AI, quantum computing, and green technology. This forward-thinking mindset informs my approach to software development and data science.