ROBERT VERES

rwveres@gmail.com
(+81) 070-1189-2544

robertveres.com
github.com/rveres
linkedin.com/in/robert-veres
Hungarian (European Union), U.S., and Canadian Citizen

Education

GEORGIA INSTITUTE OF TECHNOLOGY – Atlanta, GA – GPA: 4.00 Exp Grad: May 2024

Bachelor of Science in Computer Science with concentrations in Intelligence and Systems/Architecture
Awarded four-year full-ride Stamps President's Scholarship based on academic excellence and leadership
Relevant coursework: Data Structures & Algorithms (CS 3510), Machine Learning (CS 4641), Computer Vision (CS 4476), Operating Systems (CS 3210), Advanced Computer Architecture (CS 4290), Compilers (CS 4240), Digital Design (ECE 2031)

Skills

Programming Languages: Advanced: Java, C#, Python, JavaScript, Dart, HTML, CSS. Intermediate: C, C++, Scala, Kotlin, SQL.

Frameworks, Libraries, Tools: Advanced: React, Flutter, ASP.NET, NodeJS/Express, Pandas, NumPy, PyTorch, TensorFlow, Git. Intermediate: Angular, React Native, Hadoop, Spark, Kafka, Flink, Docker, Kubernetes, Google Cloud, Amazon Web Services.

Additional Skills: Electronics prototyping, Printed Circuit Board design (Altium), Quantitative Finance (Bloomberg Terminal)

Experience

MACHINE LEARNING ENGINEER – NTT Communication Science Labs – Kanagawa, Japan May 2022 – May 2023

- Developing novel interpretable deep learning models for polytomous ordinal data to determine respondent biases and ground truth labels for supervised learning tasks; expanding upon state-of-the-art computer vision and natural language processing (NLP) architectures.
- Creating multiple models that outperform the accuracy of current interpretable deep learning models by over 20% on complex combined vision-language classification data and exploring mechanisms for extracting optimal residual features from simultaneous vision-language tasks.
- Orchestrating advancement of models by leading team meetings to derive avenues for improving performance and ultimately publishing results.

TANULJ KÓDOLNI (LEARN TO CODE) FOUNDER – Tanulj Kódolni – Charlotte, NC/Hungary Jun 2016 – Jul 2020

- Created the first online platform where native Hungarian speakers can learn programming and software development for free to alleviate the lack of resources to learn programming in Hungarian; recruited and led team of developers in creating and evolving platform.
- Developed REST API backend with ASP.NET Core and Microsoft SQL Server (using Entity Framework); incorporated JSON Web Token authentication using ASP.NET Identity and created dynamic frontend single page application with ReactJS and GraphQL query support.
- Implemented microservice-based development and deployment strategy with Docker containerization of application components.

MOBILE APPLICATION DEVELOPER – MonosDigital – Remote Jun 2019 – Aug 2019

- Collaborated with global team of developers via Slack to develop features for and improve stability of Tour, a drag-and-drop trip planning app.
- Worked to establish integration with Google Cloud Firebase Firestore and Mapbox APIs by migrating cross-platform React Native JavaScript code to add Android compatibility, increasing potential user base by 50%; expanded search functionality with Firebase Cloud Functions.
- Aided in the migration of existing iOS codebase to Android by porting Objective-C/Swift code to Java, ensuring compatibility with AndroidX.

SOFTWARE ENGINEER INTERN – LEAD Technologies – Charlotte, NC Jul 2018 – Aug 2018

- Coordinated with Technical Support team to improve efficiency by researching and designing a document management system to provide easy accessibility to various document types and code snippets submitted by clients and internal development groups.
- Implemented REST API prototype for document management system with ASP.NET MVC/Web API, Microsoft SQL Server relational database, and Entity Framework backend with dynamic ReactJS frontend; incorporated efficient object storage on internal company network.

Projects

CUSTOM-DESIGNED MICROCONTROLLER FOR AI-BASED IOT APPLICATIONS Jan 2021 – Current

- Designed custom Arduino-based microcontroller printed circuit board from scratch for data-intensive IoT applications and AI workloads.
- Implemented schematics and PCB layout with multiple layers in Altium Designer; created BOM and relevant documents for PCB production.
- Improved Arduino crystal structures and PCB power source implementation for greater reliability in various IoT/AI applications.

Activities

AVIONICS TEAM MEMBER – Yellow Jacket Space Program – Atlanta, GA Nov 2020 – Current

- Collaborate with 15+ Avionics Team members to develop hardware and systems-level software for the Yellow Jacket Space Program, the first collegiate team seeking to launch a liquid-fueled rocket into space; all electronics are custom-designed and tested.
- Design printed circuit boards in Altium; develop systems-level C/C++ codebase for integration of modularized rocket data collection.