Christopher Nair
Iowa City, IA

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 chrisnair
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EDUCATION

•**University of Iowa** *August 2021-December 2024*
Computer Science, BS
Arabic Language, Minor

EXPERIENCE

•**Collins Aerospace (RTX Corporation)** *May 2024 - Present*
Software Engineering Intern Cedar Rapids, IA

– Performed work as 1 of 40 selected nationwide for RTX's self-directed Summer Engineering Project Program
– Implemented scalable SQL Server relational database supporting 100,000+ records
– Full project ownership to take department's internal data from 8 spreadsheets to one centralized DB
– Engineered frontend via ASP.NET Core Blazor to support import, export, and validation
– Implemented security via OAuth 2.0 and role-based access control integration with internal 2FA & GUI

•**University of Iowa Driving Safety Research Institute** *June 2023-August 2023*
Undergraduate Software Developer Iowa City, IA
– Developed autonomous driving software for 1:10 scale self-backing car and trailer system
– Read data from onboard sensors to provide data for model predictive control algorithm
– Used pigpio for onboard motor control via pulse-width modulation and OpenCV for processing of images and lane detection

•**University of Iowa** *March 2023-December 2023*
Computer Science Peer Tutor Iowa City, IA
– Provided individual tutoring to fellow Computer Science students
– Courses: CS:2230 Data Structures, CS:3820 Programming Language Concepts

•**University of Iowa CAMBUS** *August 2021-August 2024*
Transit Operator Iowa City, IA
– Transported passengers on fixed routes in class B public transport bus
– Provided paratransit services to individuals with disabilities

•**Junge Automotive Group** *July 2019-May 2022*
Paratransit Operator North Liberty, IA
– Performed maintenance and repair on BMW and Ford vehicles in BWM/Ford certified service center.

PERSONAL PROJECTS

•**Glomerular Identifier (WIP)**
– User-friendly computer vision application that aims to assist in enumeration and identification of golmoeruli in histological slides of the kidney.
– Integrated OpenSeadragon, OpenSlide, and VIPS for high-resolution image viewing and processing. Hosted in .NET Blazor for intuitive user interaction and seamless fullstack development.

TECHNICAL SKILLS AND INTERESTS

Languages: C#, JavaScript/TypeScript, C, Java, Python, Kotlin, Haskell, ARM Assembly, Razor
Developer Tools: Windows, Linux, Git, .NET, Single-board Computers
Coursework: Data Structures, Artificial Intelligence, Discrete Math, Software Development, Computer Organization, Computer Networks, Programming Language Concepts, Functional Programming and Algorithms, Mobile Computing, Algorithms, Operating Systems, Theory of Computation, Software Engineering
Areas of Interest: Software Engineering, Computer Vision, Linguistics, Computer Networks, Functional Programming, Backend Web Design
Work Authorization: United States, European Union, India

LANGUAGES

•English *Native*

•French *Advanced*

•Spanish *Advanced Intermediate*

•Arabic *Intermediate*

•Romanian *Native*