**NICHOLAS KUME**  
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**PROFESSIONAL SUMMARY**

A results-driven **Software developer** with 5+ years of experience in *Full-Stack Web Development*. A specialist in cloud computing, REST APIs, and database management, delivering scalable solutions with technologies like React.js, Node.js, and AWS to enhance user experiences and solve real-world problems.

**• Full Stack Web Development**

**• React & JavaScript Expertise**

**• Backend API & Database Dev**

**• Cloud & DevOps Integration**

**• Web3 & Decentralized Apps**

**• UI/UX & Performance Tuning**

[github.com/NicholasBkume](https://github.com/NicholasBkume)

**EDUCATION**

**Bachelor of Science (Design and Engineering).** Rhode Island School of Design   
(Providence, RI) **Associate Degree of Science in Computer Programming (C++ Specialization).** Houston Community College   
(Houston, TX)

**Associate Degree of Science in Computer Systems Networking - Cybersecurity.** Houston Community College (Houston, TX)

**Additional Professional Development:**

* Certified Oracle Database Administrator – Houston Community College
* Certified Data Analyst – Houston Community College

**PROFESSIONAL SKILLS DEMONSTRATED**

UNIVERSITY OF HOUSTON Houston, TexasFebruary 2023 – 2025 **Web application developer**

*A Virtual Reality (VR) Studio with ~15 employees, and clients/partners like VAST Academy, HISD, and Art+Design and operate 2 physical VR locations.*

Led full-stack application development, integrating React.js, Node.js, and PostgreSQL. Optimized AWS infrastructure, enhanced VR experiences with Unreal Engine 5, and ensured on-time delivery via Agile.

* **Full Stack Web Development:** Developed and maintained scalable web applications and APIs using React.js, Node.js, and PostgreSQL, ensuring reliability for 500+ active users and improving accessibility for clients like HISD and VAST Academy.
* **Cloud & DevOps Integration:** Optimized AWS & GCP cloud infrastructure by implementing EC2, S3, VPC, and Kubernetes, reducing hosting costs by 30% and improving application efficiency.
* **React & JavaScript Expertise:** Developed and optimized Web applications using React.js, enhancing user experience and ensuring seamless functionality for 500+ active users.
* **Backend API & Database Dev:** Designed and maintained backend systems with Node.js and PostgreSQL, ensuring scalability and reliability for VR applications used by 500+ users. Integrated external APIs for real-time data synchronization, improving system interoperability.
* **UI/UX & Performance Tuning:** Enhanced VR interactivity and realism by integrating Unreal Engine 5 and Motion Capture technologies, improving training and educational program outcomes. Built and optimized UI/UX components to enhance interactivity and accessibility across devices.

**PORTFOLIO PROJECTS**

[**Keeper-App:**](https://mkmx4v.csb.app/)

* Built a responsive note-taking application using React.js, optimizing UI for seamless cross-device usability. used CI/CD, and testing frameworks to integrate API endpoints for data storage and retrieval, improving performance.

[**Product Store (PERN):**](https://computer-product-store.onrender.com/)

* Built a full-stack web application designed for managing and displaying computer products. It includes both frontend and backend components, built using modern web technologies including Tailwind CSS, Vite, Arcjet, PostgreSQL (through Neon), Express, React, and Node.js.

[**Web3 NFT Marketplace Dapp:**](https://github.com/NicholasBkume/Web3-NFT-Marketplace)

* Developed a decentralized NFT marketplace built on the Internet Computer blockchain. using React.js, Node.js, Typescript, Internet Computer Protocol (ICP) and Internet Computer Canisters (Motoko) for dynamic content management. Implemented Persistent database management using PostgreSQL, ensuring efficient data handling.

**OTHER RELEVANT INFORMATION**

**Languages:** English, French

**Soft Skills:**

* Problem-solving and debugging complex code
* Effective collaboration with diverse teams
* Excellent communication for technical and non-technical audiences