JON JACKSON

OBJECTIVE

Maintain a position in the software development field to utilize my extensive knowledge of engineering as well as information technology disciplines. My combination of bachelor's and graduate level degrees show my ability to learn and constantly improve my skill set. I strive to gain more hands-on experience and training to reach my career goals. My skills would be an accomplished asset to any organization that I am fortunate enough to work for in the future.

CONTACT

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EDUCATION

North Carolina State University
B.S. Chemical Engineering (Magna Cum Laude)
B.S. Pulp and Paper Science (Magna Cum Laude)

North Carolina State University
Master's Degree in Wood & Paper Science
Graduate Minor: Statistics
Certificate in Computer Programming

University of North Carolina – Chapel Hill
Certificate MERN Full-Stack Web Development

WORK EXPERIENCE

HCA Healthcare – Consulting Application Engineer
2024 – Present
Lead project oversight over multiple Front-End applications utilizing React / Redux / RTK / Redux-Saga / Husky / Cypress / Typescript and tooling frameworks Vite and CRA
Lead developer and SME of NodeJS single page application run on over 4000+ TVs across nation-wide network of hospital and emergency room facilities
Host and deploy applications thru Azure DevOps and GitHub utilizing CI/CD pipelines with automated testing and analytics ensuring clean repos, builds, and releases – optimized a 70min build process down to 5mins
Built a template for all Web applications utilizing Vite, Husky, Storybook, and Cypress to scaffold new projects across enterprise
Provide mentoring and teaching to team software developers, coordinate across other teams (Back-end. Project Management, QA, and Business stakeholders) to ensure deliverables are met quickly and efficiently
Develop on Backend C# .NET Restful API
Develop on Mobile Swift native iOS phone and tablet application
420+ PRs current year

HCA Healthcare – Senior Application Engineer
2022 – 2024
Create, refactor, and support Front-End applications in React / Redux / Typescript as well as VueJS utilizing NodeJS

Project oversight over large-scale enterprise-wide issue resolution app using ReactJS, Typescript

Co-developer oversight over rewrite project of enterprise-level patient rounding app (generating 10+ million data points / month) from VueJS/ Vuex to ReactJS/Redux/Redux-Saga/Typescript

Lead developer of NodeJS single page application run on over 3000+ TVs across nation-wide network of hospital and emergency room facilities

Host and deploy applications thru Azure DevOps and Github utilizing CI/CD pipelines with testing and analytics ensuring clean repos, builds, and releases

Provide mentoring and teaching to team software developers, coordinate across other teams (Back-end. Project Management, QA, and Business stakeholders) to ensure deliverables are met quickly and efficiently

Atlanta Technical College / Generation USA – Full-Stack Web Development Lead Instructor
2021 – 2023

Creating and executing lessons on topics such as Git, HTML, CSS, and JavaScript, and Java.

Leading a class of 100 learners through lessons and technical material, as well as working with them one on one to solve problems and reinforce coding concepts and best practices.

2U Inc – Senior Tutor / Learning Assistant / Instructional Specialist
2019 – Present

Tutoring and support of over 30 students concurrently in one-on-one coaching and mentoring sessions

Help Desk student support of APIs and full-stack app implementation and debugging via automated Slack question queue with cumulative near-perfect 4.9+/5 average feedback rating – 2+ years of 5/5 mean rating

Periodic leading and full-time oversight of lectures teaching software programming principles and web development

Independent Consultant
2003 – 2018

Designed, built, supported, serviced Intel and AMD-based computer systems

Setup and maintenance of home wireless local area networks

Researched and mentored portfolios using extensive knowledge of financial markets

Operated retail mail-order drop ship service utilizing web-based selling platforms

North Carolina State University - Research Assistant
1997 – 2003

Supervised manufacturing pilot-plant for both commercial and student academic purposes.

Performed ROI cost-analysis on commercial trials

Studied effects of water closure on the physical and chemical properties of the wet end of the papermaking process.

North Carolina State University - Research Technician
1995 - 1997

Supervised research and statistical analysis of graduate funded projects.

Worked on the development of a model for the degradation of cellulose acetate in cigarette filters.

Bear Island Paper Company - Project Engineer
1995
Constructed mass balance of the recycling plant and performed a comparative evaluation of flotation chemicals
Projects completed led to implementation of substantial multiple million-dollar cost improvements
Worked for the production and technical managers on independent projects using computer simulation, spreadsheets, and word processing.

SKILLS

Proficient in object-oriented programming

Technologies: HTML, CSS, Full-Stack MERN, RESTful APIs, Graph APIs, Data Science

Languages: JavaScript, Python, Typescript, Java, SQL, NoSQL, GraphQL, C#, C++, Swift

Front-end frameworks: React, Redux, Redux-Saga, MUI, Semantic-UI, Bootstrap, Materialize-css, Handlebars JS, ApolloCient

Back-end frameworks: Express S, MongooseJS, Sequelize ORM, Inquirer, PassportJS, EJS, Flask, ApolloServer, Socket IO, Spring, .NET

Testing frameworks: Cypress, Jest, Mocha, Chai, React-Testing-Library, ViTest

Systems: Windows, MacOS, UNIX, MS-DOS, Linux

Software: Windows XP/Vista/7/10/11, Visual Studio Code, IntelliJ, MS Office Word, Excel, Access, Outlook, PowerPoint. MySQL Workbench, MongoDB, Atlas DB, Robo 3T, Postman, Insomnia, MAMP, NodeJS, Git Bash, NPM, Pipenv, Heroku, Firebase

Experience with WLAN setup and maintenance