



## OBJECTIVE

To obtain a position in the software development field to utilize my extensive knowledge of engineering as well as information technology disciplines. My combination of bachelors 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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# JON JACKSON

## EDUCATION

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### **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

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### **Atlanta Technical College / Generation USA – Full-Stack Web Development Lead Instructor**

2021 – Present

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**

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  
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

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**Proficient in object-oriented programming**

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

**Languages:** JavaScript, Python, Typescript, Java, SQL, NoSQL, GraphQL, C++, Assembly

**Front-end frameworks:** React, Material-UI, Semantic-UI, Bootstrap, Materializecss, Handlebars JS, Apollo Client

**Back-end frameworks:** Express JS, Mongoose JS, Sequelize ORM, Inquirer, PassportJS, EJS, Flask, Apollo Server, Socket IO, Spring

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

**Software:** Windows XP/Vista/7/10, 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