



BO BONNING

PROFESSIONAL SUMMARY

Bo Bonning is a versatile professional with a lifelong dedication to learning. Holding three undergraduate degrees, he transitioned into a Ph.D. program in chemical engineering and undertook a pivotal internship at Oak Ridge National Laboratory, where he explored lithium-ion batteries. Completing his Ph.D. in cryogenic electronics, even amidst a pandemic, underscored his adaptability. During this time, he seized the opportunity for online courses, including Harvard's CS50, igniting a passion for programming. His proactive self-study while working for his family's business and enrollment in General Assembly's Software Engineering Immersive program demonstrated his structured pursuit of software engineering. Bo's dedication to continuous learning led him to Cook Systems' Fast Track program, where he enhanced his skills in Java, solidifying his reputation as a committed lifelong learner ready for any professional challenge.

TECHNICAL SKILLS

Programming: Java, JavaScript, Angular, Python, C, C#, TypeScript, HTML5, CSS3, SQL, Spring, Spring Boot, JDBC, Jackson, JPA, jQuery, Node, webpack, Babel, Maven, npm
Software: Eclipse, VS Code, Git, GitHub, cmd, pgAdmin
Databases: PostgreSQL, MongoDB, SQLite
Operating Systems: Windows, Linux

PROFESSIONAL EXPERIENCE

COOK SYSTEMS – Memphis, TN
FastTrack Developer

09/23 – Present

Backend for Social Media Platform

- Successfully developed the backend infrastructure for a social media platform.
- Acted as the Git Master, overseeing version control and ensuring seamless collaboration among team members.
- Collaborated effectively within a team to deliver the project on time and with high quality.
- Utilized Java and Spring to build the infrastructure and implement RESTful endpoints, showcasing technical skills and leadership as the Git Master.

Environment: Java, Spring, Hibernate, Eclipse, pgAdmin

Assessment #2

- A
- B
- C

- D

Environment:

Assessment #3

- A
- B
- C
- D

Environment:

General Assembly – Remote

04/23 – 07/23

Software Engineer Fellow

- Developed several personal projects, demonstrating independent problem-solving and creativity.
- Contributed to the completion of full-stack applications, showcasing skills in teamwork and collaboration.
- Participated actively in the Software Engineering Immersive program, furthering skills in Javascript, Python, React, and full-stack development.

Tennessee Technological University – Cookeville, TN

08/15 – 10/20

Graduate Research Engineer

- Published research papers in the Journal of Cryogenics, contributing to the scientific community.
- Spearheaded the orchestration of scientific experiments in the Cryogenic Electronics Laboratory.
- Maintained comprehensive documentation of experimental findings.
- Presented research at National Conferences.

Oak Ridge National Laboratory – Oak Ridge, TN

05/16 – 08/16

Battery Research Engineer Intern

- Participated in the Distinguished Scholars Program in collaboration with Volkswagen.
- Contributed to advancements in battery research by constructing and studying lithium-ion batteries.
- Presented research findings at Volkswagen Headquarters.

PERSONAL PROJECTS

solve. – Problem solving application

- Developed a MERN-stack application (MongoDB, Express, React, Node.js) and deployed using Heroku.
- Incorporated OpenAI API and OCR API to solve problems from images, and AWS S3 for cloud storage,
- Utilized JWT based authentication and Tailwind for styling.

Chemi – Chemistry application for compound lookup and folder management

- Developed a MERN-stack application (MongoDB, Express, React, Node.js) and deployed using Heroku.
- Incorporates different LLMs including GPT 3.5 and models from HuggingFace through LangChain.

- Added functionality to store documents using AWS S3, and handle locally with Docker.

EDUCATION

Cook Systems FastTrack Java Program – Memphis, TN <i>Concentrated Java Frameworks and developer tools training</i>	09/23 – Present
Tennessee Technological University – Cookeville, TN <i>Doctor of Philosophy: Chemical Engineering</i>	08/15 – 10/20
Tennessee Technological University – Cookeville, TN <i>Bachelor of Science: Chemical Engineering</i> <i>Bachelor of Science: Biochemistry</i> <i>Bachelor of Science: Cellular & Molecular Biology</i>	08/10 – 08/15