

DANIEL BLANCHARD

South Jordan, UT | daniel.s.blanchard97@gmail.com | (801) 232-3445 | Portfolio: www.danielblanchard.click

Education

Bachelor of Science, Computer Science

Brigham Young University, GPA: 3.82

Provo, UT

Expected Graduation: Dec. 2023

Professional Experience

ChoiceGuard Insurance Services (Insurance tech start-up)

Full-Stack Engineer – Contractor

Provo, UT

Oct 2023 – Present

- Actively involved in identifying and resolving critical bugs in both the front and back-end of the application, and enhancing performance to fast-track deployment of start-up's virtual broker application

(TypeScript, React.js, Next.js, Firebase, Tailwind CSS)

Expedia Group

Software Development Engineer Intern

Seattle, WA

May 2023 – Aug 2023

- Designed, built, and deployed internal website for license governance team, enhancing visibility in the request lifecycle to track progress, understand workflow stages and identify points of contact, resulting in a significant reduction in communication bottlenecks
- Developed a dynamic classification/visualization program to efficiently map and define license request statuses for 30+ complex workflows
- Collaborated with cross-functional teams to gather project requirements and feedback resulting in high user satisfaction from 20+ users

(TypeScript, React.js, Next.js, MSSQL, Figma, Agile, Python, AWS Lambda, HTML/CSS)

L3Harris Technologies

Software Engineer Intern

Salt Lake City, UT

May 2022 – Aug 2022

- Achieved a 400% improvement in built-in-test (IBIT) speed by redesigning algorithms and introducing incremental signal waiting
- Resolved over 10 major defects in an interim software release for an embedded system, improving product reliability
- Developed and ran 50+ unit tests to ensure 100% software compliance with government requirements

(C++, Unix, Agile)

CG Industrial Specialties

Software Development Intern

Vancouver, BC, Canada (Remote)

Aug 2021 – May 2022

- Led development of desktop app to simulate chemical/physical reactions in an autoclave, advancing understanding of valve technology
- Optimized control loop algorithms resulting in a 50% reduction of processing time and a 500% reduction of memory usage
- Implemented advanced visualization algorithms resulting in more accurate representation of complex physical/chemical reactions

(C#, WPF, XAML, Simulink, C++, Agile)

Micron Technology

Smart Manufacturing Intern

Boise, ID

May 2021 – Aug 2021

- Created program to visualize tool data during process failure resulting in predictive analytics case expected to reduce downtime by 80%
- Integrated mixed reality tech into a complex tool change process, leading to a 50% decrease in training costs and a decline in error rates

(Python, HoloLens 2)

Brigham Young University

Web Development Teaching Assistant

Provo, UT

Jan 2022 – May 2023

- Facilitated learning of JavaScript and React by providing technical support, debugging assistance and code review to 250+ students
- Oversaw creation of 5+ labs to help students learn fundamentals of full-stack development and common web technologies

(JavaScript, React.js, Node.js, Express, MongoDB, HTML/CSS)

Research Assistant

Jan 2020 – May 2022

- Created a transient thermal model that predicts temperature in the interface of a friction weld resulting in improved flow stress data
- Developed an application to calculate the volume of extruded material during a friction weld reducing a 5-hour task to just 2 minutes

(MATLAB, Python)

Project Experience

YHack BYU Hackathon (2nd Place Overall) – (React.js, JavaScript, Next.js, Node.js, HTML/CSS)

Mar 2023

- Built AI-powered web application for crafting brand narratives through an interactive storytelling experience, inspired by Spotify's Wrap

Twitter Clone Android app w/AWS infrastructure – (Java, Android, Lambda, S3, SQS, DynamoDB)

Jan 2023 – Apr 2023

- Twitter clone utilizing AWS cloud services with a focus on employing effective architecture and adhering to Java design patterns

Metallography Tools App – (React.js, JavaScript, Next.js, Node.js, HTML/CSS)

Apr 2023 – May 2023

- An app to obtain precise volume calculations of outlined areas of interest on tube cross-sections for metallographic analysis

Leadership Roles

Association of Computational Machinery (ACM) - Events Officer

Apr 2022 – Aug 2023

- Organized and executed career-oriented events enabling CS students to excel in interviews and network with industry professionals

Society of Manufacturing Engineers (SME) - Vice President

Aug 2020 – Apr 2022

- Achieved a 200% increase in recruitment earning a nationwide SME award for leading student chapters in new member acquisition

Skills

Languages: Java | Python | Typescript | JavaScript | C/C++ | HTML/CSS

Technologies: React.js | Next.js | Node.js | Android | AWS (EC2, Lambda, S3) | Git | MongoDB | Linux | SQL

Other: Spanish | Full-Stack Development | Web Development | Agile | Object-oriented programming