# FANG W. SHEN



☑ fang.w.shen@gmail.com (in) linkedin.com/in/fang-wen-shen



github.com/fang-w-shen



(484)-636-7786

## EDUCATION Nashville Software School

Vanderbilt University

B.E. Biomedical Engineering Cum Laude Dean's List GPA: 3.74

#### DESIGNS & DEVICES

#### AccuTemp

temperature tracker designed to aid physicians in tracking the cyclical temperature patterns of diagnoses. This device uses an sensor to capture light emanating ear. While wearing the device, captured IR signals are converted to temperature and subsequently

#### Tetris-Arena

Tetris-Arena is an online single and multiplayer game developed in JavaScript / jQuery and packaged into a cross-platform web and mobile design with customized Bootstrap and Materialize SCSS. supported by Google AUTH while route control and a smooth singlepage-access (SPA) experience, in addition to Firebase's documentreal-time 1 vs. 1 player action.

#### Galaxy-VR

<u>galaxy-vr.herokuapp.com</u>

virtual tour of the Solar System that combines the use of NASA's open API data with 3D modeling and animations to render the Solar System and its planets in React-VR.

#### AWARDS

**Healthcare Hero** (2020)

(2017)**Catalyst Award** 

**Arnold G. Biomedical Engineering** (2014)**Design Finalist** 

First Place Engineering Design (2014)

(2013)**Research Fellowship** 

#### PROFILE

Languages and Frameworks: JavaScript (ES6+), TypeScript, Next, GraphQL, SQL, HTML5, CSS3, Sass, C#, .NET, Electron, Java, C++, Ruby

Libraries: React, Redux, React Testing Library, Jest, Cypress, Storybook, Material-UI, Bootstrap, Materialize, Angular

Tools: Node, Webpack, Git, Jira, Docker, Adobe Xd, Sketch, Figma, InVision, Firebase, Azure, Google Analytics / Optimize, Tableau, Sitecore, Prismic, Vercel, Buildkite

#### PROFESSIONAL EXPERIENCE

#### Senior Development Engineer: Tuft & Needle

(2021-Present)

- Next, Node, React, Typescript, GraphQL, Storybook, Jest, React Testing Library, Chakra UI, Vercel, Buildkite, Prismic, Chromatic, Figma, Calibre
- platforms across multiple international Direct-to-Consumer mattress brands (Serta, Beautyrest, and Tuft & Needle).
- Lead Google Optimize A/B experiments resulting in increased revenue, enhanced page performance, and faster navigation speed
- Implement static and server rendering strategies in Next.js for improved SEO results
- Manage designer and stakeholder expectations with high fidelity Chromatic reviews, analyses, and discussions
- © Incorporate Jest, Cypress, and React tests into QA processes

### Senior Digital Experience Developer: Cracker Barrel

(2021)

- Storybook, React, Redux, Sitecore, Firebase, Azure, Figma, InVision
- © Implementation of E-Commerce and Supply Chain capabilities within cross-platform web and mobile experiences to enable and support national food and retail sales.
- © Lead design and engineering processes using Storybook Design System React components and Figma/InVision prototypes
- © Incorporation of e-commerce and digital marketing capabilities within Sitecore/Salesforce/Facebook Pixel/MicrosoftDynamics365
- © Establishment of CI/CD build and release pipelines in Azure DevOps
- Delivery of operational metrics through Firebase and Azure Analytics

#### Senior Solutions Developer: Ascension Technologies (2018-2021)

- Angular, React, Redux, Electron, C#, .NET, SQL, Tableau, Azure, AWS
- © Development of greenfield solutions and national tele-health applications to support physician practice, finance, and COVID-19 patient care efforts.
- O Architecture of national healthcare applications in C# .NET/ React/ Redux
- © Deployment of advanced BI visualizations in Tableau Reports
- O Deployment of API gateways and container-based microservices
- © Contribution to SDLC with automated CI/CD pipeline

#### PUBLICATIONS

## **International Journal of Cardiology**

https://www.ncbi.nlm.nih.gov/pubmed/24820736/

Biomedical Engineering Society Annual Meeting, Seattle, WA

http://www.bmes.org/AnnualMeetingProgram.pdf

Society for Biomaterials Annual Meeting, Boston, MA • http://abstracts.biomaterials.org/data/papers/2013/0243-000538.pdf

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