

## Fang W. Shen

### Contact

Phone: (484) 636 - 7786  
Location: Nashville, TN  
E-mail: fang-wen.shen@vanderbilt.edu

### Professional Sites

[github.com/fang-w-shen](https://github.com/fang-w-shen)  
[linkedin.com/in/fang-wen-shen](https://www.linkedin.com/in/fang-wen-shen)  
[fang-w-shen.github.io/Professional-Portfolio](https://fang-w-shen.github.io/Professional-Portfolio)

### EDUCATION

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#### Vanderbilt University in Nashville, Tennessee

Bachelor of Engineering in Biomedical Engineering, Class of 2014, Cum Laude Dean's List

### INDUSTRY & ACADEMIC EXPERIENCE

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#### Software Developer, Nashville Software School

(2017-Present)

- Full-Stack Development of RESTful API's in MVC applications with Ruby on Rails Framework
- Application Design using OOP Fundamentals/SOLID Principles under SCRUM Methodology
- Project Management with Trello and Github Issue Tracking, Source Code Version Control with Git/Github
- Business Solution architecture for scalable applications with White-Boarding, Wireframes, and ERD Designs
- Document & Relational Database Management and Deployment through Firebase, Github, SQLite, and Heroku
- Responsive Web and Mobile UI/UX Engineering for Single-Page-Applications in AngularJS and ReactJS
- DRY and Modular Component Design using Inheritance, Encapsulation, and Abstraction Principles
- Test Driven Development with Unit and Integration Tests using Jasmine, Ruby Minitest, and RSpec
- Task Automation & Linting: Grunt/Gulp/JSHint. Module Bundling & Compiling: Browserify, SASS/SCSS

#### Front Store Supervisor/ Rx Technician, CVS Pharmacy

(2016-2017)

- Integrated Mobile Curbside Pickup App to manage and facilitate successful online/in-person prescription demands

#### Assistant Manager, Petroleum Marketing Group

(2014-2015)

- Increased store sales and net profit through strong customer service and detailed inventory management

#### Summer Tenure Fellow, Vanderbilt University: School of Engineering

(2013)

- Contributed to the research of "Inflammatory Cell Response to Degradation Products of Polymeric Vascular Stent"

### LEADERSHIP & SERVICE

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#### Medical Assistant & Dental Assistant, of PA Union Medical Center & Angel Smiles Pediatric Dentistry

(2014-2015)

- Effectively maintained patient-portal with organized systems to ensure timely patient flow and patient-centered care

#### Patient Escort, at Paoli Memorial Hospital

(2008-2011)

- Responsible for discharging healthy patients safely and transporting sick patients to and from testing facilities

### AWARDS & PUBLICATIONS

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#### Catalyst Award: Nashville Software School

(2017)

#### Arnold G. Biomedical Engineering Senior Design Competition Finalist: Vanderbilt University

(2014)

#### First Place Award in Engineering Concept Design Competition: Vanderbilt University: School of Engineering

(2014)

#### Research Fellowship Certificate of Achievement: Vanderbilt University: School of Engineering

(2013)

**International Journal of Cardiology** - Wang X, Zachman AL, Chun YW, **Shen FW**, Hwang YS, Sung HJ. "Polymeric Stent Materials Dysregulate Macrophage and Endothelial Cell Functions: Implications for Coronary Artery Stent." (2013)

**Biomedical Engineering Society Annual Meeting, Seattle, WA** - Zachman AL, Tucker-Schwartz JT, **Shen FW**, Fitzpatrick S, Skala M, Sung HJ. "Peptide-Functionalized Scaffolds Regulating Angiogenesis and Inflammation in Peripheral Artery Disease." (2013)

**Society for Biomaterials Annual Meeting, Boston, MA** - Zachman AL, Tucker-Schwartz JT, **Shen FW**, Fitzpatrick S, Skala M, Sung HJ. "Pro-Angiogenic and Anti-Inflammatory Therapies for Peripheral Artery Disease." (2013)

### DEPLOYED PRODUCTS

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#### FTris-Arena - <https://tetris-arena.firebaseio.com>

- A Multiplayer Online Game Developed with HTML5/SCSS/JS/JQuery/Bootstrap/Materialize/Firebase in AngularJS

#### Galaxycyclopedia - <https://galaxycyclopedia.herokuapp.com>

- Rails MVC Interface for API Documentation and Image Sharing and RESTful API for Data Querying

#### Galaxy-VR - <https://galaxy-vr.herokuapp.com>

- An Interactive Virtual Tour of the Solar System with Blender 3D Model Extrusions Rendered in React-VR

### SKILLS & TECHNOLOGIES

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- Web Development: HTML, CSS/SCSS, JS, JQuery, Bootstrap, Materialize, Git/Github, Browserify, Grunt, Gulp
- Mobile/UI/UX/Database Design: AngularJS, React, Android Studio, Firebase, Ruby, Rails, SQLite, pgSQL
- R&D of Biomedical Device with CAD, MatLab, LabView, Circuit Soldering, and Statistical Analysis: (R, ImageJ)
- Human Primary Cellular Culture/Microscopy, Polymer Synthesis/Imaging, Three-Point Bend Stress/Strain Tests
- Experience in Animal Care, Handling, and Surgery: (Subcutaneous and Intramuscular Injections)
- Multilingual: Music, Software Code, English, Chinese, and rudimentary elements of French and Spanish