Fang W. Shen

Contact

Professional Sites

Phone: (484) 636 - 7786

github.com/fang-w-shen

Location: Nashville, TN

linkedin.com/in/fang-wen-shen

E-mail: fang-wen.shen@vanderbilt.edu

fang-w-shen.github.io/Professional-Portfolio

EDUCATION

Vanderbilt University in Nashville, Tennessee

Bachelor of Engineering in Biomedical Engineering, Class of 2014, Cum Laude

INDUSTRY & ACADEMIC EXPERIENCE

Junior 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

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

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

FTris-Arena - *https://tetris-arena.firebaseapp.com*
- A Multiplayer Online Game Developed with HTML5/SCSS/JS/JQuery/Bootstrap/Materialize/Firebase in AngularJS

Galaxcyclopedia - *https://galaxcyclopedia.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
- 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