

Dr. Justin Albert

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Web Development

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Pdf Version: [Open](#)

Profile

A mathematician turned web developer looking for an opportunity to use his vast technical and publishing experience from his time teaching together with his newly acquired technical skills from his time in coding courses to help create websites, algorithms and more.

Skills

Web Development	Algorithms	Programming
Object-Oriented Programming (OOP)	Cascading Style Sheets (CSS)	HTML
JavaScript	JSON	Node.js
React.js	MongoDB	Mongoose
NoSQL	MySQL	Sequelize
SQL	GitHub	Git
Bootstrap	jQuery	Heroku
APIs	Express.js	Coding
Mathematics	Research	Publishing
Higher Education		

Projects

Explorer

Description: An educational game the explores the wonders of Earth and space. View deployed page at <https://fierce-earth-38835.herokuapp.com/>

Skills used: MERN full-stack application, that is it utilizes mongo DB and mongoose, express, react and node.js. We also use of the bcrypt, jsonwebtoken and socket.io packages. In particular, I focused on the overall design and the explore and learn implementation.

Limit Electronics

Description: An ecommerce app that focuses on selling electronics. View deployed page at <https://fierce-earth-38835.herokuapp.com/>

Skills used: In this project we utilized css, html, js, bootstrap, handlebars, mySql and express in order to make a full-stack functional website. In particular, I focused on providing administrative tools that allowed for editing inventory and monitoring sales.

What's For Dinner?

Description: A website meant to recommend dinner and drink options to the user. View deployed page at <https://jalbert12485.github.io/whats-for-dinner/>

Skills used: In this project we utilized css, html, js, and third party apis. In particular, I developed the main page, over all layout and implemented the api calls.

Experience

Instructor, *Virginia Commonwealth University*, Richmond, VA, Aug. 2016 to May 2020

Developed, planned, coordinated and instructed mathematics courses.

Assistant Professor, *Carthage College*, Kenosha, WI, Jan. 2013 to May 2016

Created and implemented curriculum in the classroom.

Lecturer, *Alverno College*, Milwaukee, WI, Aug. 2012 to Dec. 2012

Oversaw and led mathematical lectures.

Adjunct Faculty, *Marquette University*, Milwaukee, WI, Aug. 2006 to Dec. 2012

Taught mathematics courses.

Education

Ph.D. in Mathematics, *Marquette University*, Milwaukee, WI. Dec. 2012

B.A. in Mathematics and Music, *Carthage College*, Kenosha, WI. May 2006

Certificates

Full-Stack Development Certificate, *Northwestern University*, Evanston, IL. Dec. 2020

Publications

Bands with High Symmetry and Uniform Bands

Albert, J. (2012). Bands with high symmetry and uniform bands. Doctoral dissertation, Marquette University, Milwaukee.

Free Split Bands

Pastijn, E., Albert, J. Free split bands. Semigroup Forum 90 (2015): 753-762.

Semilattice Transversals of Regular Bands I

Pastijn, E., Albert, J. Semilattice transversals of regular bands I. Communications in Algebra 45 (2017): 4979-4991.

Semilattice Transversals of Regular Bands II

Pastijn, E., Albert, J. Semilattice transversals of regular bands II. Semigroup Forum 95 (2017): 423-440.

Uniform Bands

Albert, J., Pastijn, E. Uniform bands. Proceedings of the Edinburgh Mathematical Society (2) 57 (2014): 575-587.