

# Justin Chen

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## EDUCATION

### Rensselaer Polytechnic Institute

Troy, NY, USA

Bachelors of Science in Computer Science, Bachelors of Science in Business Analytics

May 2026

- **Coursework:** Machine Learning, Quantitative Methods, Software Engineering, Data Structures, Statistical Methods, Computer Info Systems, Algorithms, Computer Organization, Operating Systems, Database Systems, Parallel Computing
- **Awards:** Rensselaer Leadership Award, Dean's Honor List (top 10 % of class)

## EXPERIENCE

### Full Stack Developer Intern

July 2024 – December 2024

Defacto Global Inc

Troy, NY

- Rebuilt the company website with Next.js, removing cluttered WordPress instances and reducing costs by \$2400/year
- Integrated Strapi as a marketing CMS, aggregating 8 social media platforms and improving content flow by 800%
- Implemented caching and pagination, reducing page speeds by 64% (from 2.1s to 0.8s) and server usage by 76%
- Built CI/CD pipelines using Github actions, drastically improving content delivery and deployment speeds by 66%

### Web Developer & Freelancer

April 2024 – July 2024

Upwork

Remote

- Created 5 production-ready websites using SquareSpace, Wix, and WordPress to close \$2.6k in client contracts

### Web Developer & Marketing

May 2023 – August 2023

Mayan Mobile Marketing

Plainfield, NJ

- Built 12 production-ready web platforms using Wix Studio, bringing \$70k in marketing contract deals
- Implemented SEO for over 50 sites, leading to higher search engine visibility and an average 230% increase in site traffic

## PROJECTS

### Mango Maps | Nextjs, React, Typescript, Python, PostgreSQL, RestAPI

November 2024

Full Stack Developer & Project Lead

[\[https://tinyurl.com/mango-maps\]](https://tinyurl.com/mango-maps)

- Ranked **Best Data Science Hack** in the HackRPI X 2024 hackathon with over 260 participants and 86 projects
- Utilized Mapbox, Google Maps API, and external data sources to aggregate and visualize large amounts of map data
- Implemented caching for server responses to improve page speeds by 40% and reduced API token usage by 80%

### Store Sales Forecasting | Python, Numpy, Pandas, Tensorflow, Matplotlib

September 2024 - December 2024

Machine Learning Engineer

[\[https://tinyurl.com/ecuador-forecasting\]](https://tinyurl.com/ecuador-forecasting)

- Aggregated, cleaned, and analyzed 200,000+ rows of store sales data from Ecuador using Python, Pandas, and Numpy, detecting over 9 total clustering, sales trend, and feature dependency in training
- Developed and benchmarked various forecasting models including ARIMA, SARIMA, Gradient Boosting, and Random Forest using 5 different performance metrics, producing near-accurate predictions within 0.38 RMSLE
- Presented clean, insightful visual presentations of relevant, trending data points using Matplotlib and Seaborn

### Haunted Crescendo | Unreal Engine 5, C++, Git, Docker, Blender

August 2024 – September 2024

Composer, Sound Designer, Developer Operations

[\[https://tinyurl.com/haunted-crescendo\]](https://tinyurl.com/haunted-crescendo)

- Ranked **Best Sounds** and **Top 5 Overall** in Mouse Jam 2024 with over 40 submissions, garnering 100+ user downloads
- Composed soundtracks and sound effects through FL Studio and C++, engineering elements of audio and frequencies that induce psychological fear and fight-or-flight responses in the human neural system
- Managed version control using Git and Docker to ensure synchronization of projects across 8 remote team members

## SKILLS

**Certifications:** AWS Cloud [\[https://tinyurl.com/aws-cloud-cert\]](https://tinyurl.com/aws-cloud-cert), IBM Quantum [\[https://tinyurl.com/ibm-quantum-cert\]](https://tinyurl.com/ibm-quantum-cert)

**Languages:** Python, Java, C++, C, C#, R, Lua, React, Javascript, Typescript, HTML, CSS, Dart, GDScript, Erlang

**Technologies:** Vercel, AWS, Azure, Git, Node, LangChain, Tensorflow, Flask, Excel, PowerBI, Godot, Unity, Unreal Engine

**Concepts:** Software Engineering, Backend, System Design, Cloud Computing, Infrastructure, Web Development, REST API