

# Bradly Carpenter

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## SUMMARY

Self-taught full-stack developer with a strong foundation in Python, JavaScript, and web technologies, acquired through intensive online bootcamps and hands-on personal projects. Passionate about building interactive applications and continually learning new technologies. Skilled in developing APIs, building responsive front-ends, and deploying web applications.

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## SKILLS

**Languages & Frameworks:** Python, JavaScript, Flask, Express.js, Node.js, React.js, EJS

**Front-End:** React, HTML5, CSS3, Bootstrap 4/5, Flexbox, Grid, DOM Manipulation, jQuery, ES6

**Back-End:** REST APIs, PostgreSQL, SQLite, SQL

**Tools & Technologies:** Git, GitHub, Heroku, Gunicorn, Amazon S3, CloudFront, PyCharm, Jupyter, Google Colab

**Data & Automation:** Pandas, NumPy, Matplotlib, Web Scraping (Beautiful Soup, Selenium)

**Testing:** Vitest

**Deployment & DevOps:** GitHub CI/CD, Heroku, Bash, CLI, Docker

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## EDUCATION

### Online Bootcamps (Udemy)

- **100 Days of Code: The Complete Python Pro Bootcamp**  
*Completed January 2025*  
Covered: Python 3, Flask, REST APIs, Web Scraping, Automation, Data Science (Pandas, NumPy, Matplotlib, Scikit-learn), SQL, PostgreSQL, GUI Development (Tkinter), Deployment (Heroku, GitHub Pages, Gunicorn)
- **The Complete Full-Stack Web Development Bootcamp**  
*Completed March 2025*  
Covered: HTML5, CSS3, Bootstrap 5, JavaScript (ES6), React.js, Node.js, Express.js, EJS, REST APIs, PostgreSQL, Authentication, Git & Version Control

### Bachelor of Arts in Sound Production

*SAE Institute Cape Town • 2016 – 2018*

### Matric Certificate

*Paarl Boys' High School • 2015*

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## PROJECTS

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### eCommerce Book Website *(In Progress)*

[GitHub Repo](#)

Tech Stack: Express.js, PostgreSQL, Amazon S3, CloudFront, Vitest

- Building a full-featured online bookstore using MVC architecture
- Handles product listings, user authentication, and cart management
- Utilizes Amazon S3 and CloudFront for efficient static media delivery
- Implements unit tests using Vitest for backend functionality

### Spotify REST API

[GitHub Repo](#)

Tech Stack: Python, Flask, Spotify API

- Developed a personal API to interact with a Spotify account
- Enables music control and playback information retrieval
- Serves as a backend integration for other applications

### Twitch Interactive Bot

[GitHub Repo](#)

Tech Stack: JavaScript, WebSockets, Spotify API

- Created a bot that interacts with Twitch chat for live audience participation
- Responds to commands and allows song requests via Spotify integration
- Handles real-time messaging using WebSockets

### Web Games with Godot Engine

[Play Pong](#) • [Play Snake](#)

Tech Stack: Godot Engine, WebAssembly, Express.js, HTML5

- Built classic games (Pong and Snake) using the Godot game engine
- Exported to WebAssembly and hosted with Express.js for browser play

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## REFERENCES

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- **JJ Williams:** Former High School IT Teacher and Full-Stack Developer at Warp Development  
084 494 5522
- **Hendri Jooste:** Former General Manager at City Varsity College  
076 819 4054
- **Josh Riley:** Former Colleague at Damelin College  
+44 7562 742948

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## HOBBIES

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- **Fighting Games** – Tournament organizer for competitive titles like *Tekken* and *Street Fighter*. Organized **Red Bull Kumite** at Comic Con Cape Town 2024, and currently head TO for **Red Bull Golden Letters** at Comic Con 2025.
- **Card Games** – Regular participant in weekly tournaments, primarily playing *Yu-Gi-Oh!* and occasionally *Pokémon TCG*.
- **Music Production** – Passionate about producing electronic music, with a background in sound studies and experience creating original tracks.
- **Fitness & Health** – Enjoy staying active, regularly going to the gym, and maintaining a healthy diet and lifestyle.