

# Ivana Horvatic

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*Results-oriented Web Developer with a keen eye for detail and a track record of delivering quality results. Proficient in Python, Full-Stack Web Development, and Cybersecurity. Master's graduate with Distinction and diverse project experience. Passionate about creating engaging online experiences.*

## EDUCATION

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***Master's Degree in Advanced Computer Science***  
Swansea University

September 2020 – July 2022

- **Graduated with Distinction**
- Experience and Modules:
  - Security Vulnerabilities and Penetration Testing (Linux, Metasploit, Telnet)
  - Information Security Management (Risk assessment and management, Legal Frameworks)
  - Advanced Artificial Intelligence and Cyber Security (Python, Deep Learning)
  - Big Data and Machine Learning (Python, Clustering, NN, CNN)
  - Modelling and Verification Techniques (Haskell, CSP, NSP)
  - Optimisation (Python)
  - Data Visualisation (Paraview)

***Bachelor's Degree in Computer Science***  
Swansea University

September 2017 – September 2020

- **Graduated with Second Class Honours (Division One)**
- Year 3 Experience and Modules:
  - Cryptography and IT-Security (C, C++, Raspberry Pi)
  - Artificial Intelligence (Python)
  - User Experience
  - Mobile Applications (Kotlin)
  - Web Application Development (Laravel, Ajax, CSS, HTML, SQL, Javascript, Vue, React, Bootstrap)
  - Logic for Computer Science
- Year 2 Experience and Modules:
  - Algorithms (Sorting)
  - Databases (MySQL)
  - Declarative Programming, Automata and Formal Language Theory, Concurrency (Haskell, Prolog, Logic)
  - Computer Graphics (Java)
  - Introduction to Human-Computer Interaction (Design Principles)
  - Software Engineering (Java, CSS)
- Year 1 Experience and Modules:
  - Programming and Computer Science Concepts - Java, Linux (BASH)
- Extracurricular Activities: Green Book Club (programming club in university), Volleyball, Gaming Society, Art Society, Women in Computing member.

- Mathematics (Grade C), English (Grade B), Croatian (Grade B)
- Class president (September 2015 - June 2017)
- Extracurricular Activities: Volleyball, Swimming, High School Choir

## **PROFESSIONAL SKILLS**

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- Web Development: React, Redux, HTML, CSS, Bootstrap (2+ years of experience)
- JavaScript: Proficient in JavaScript for both frontend and backend development (2+ years of experience)
- Python: Extensive experience in Python for web development and cybersecurity (3+ years of experience)
- Backend Development: Laravel, SQL, Ajax (1+ years of experience)
- Frontend Development: Vue, HTML, CSS, Bootstrap (2+ years of experience)
- Cybersecurity: Security Vulnerabilities, Penetration Testing (6 months of experience)
- Version Control: Git, GitHub (2+ years of experience)
- Tools: Metasploit (Cybersecurity), Paraview (Data Visualisation) (6 months of experience)

## **PROJECTS**

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- Developed a sketching interface transforming 2D input into 3D models using Python (Master's Thesis).
- Created Python games: Snake Game, Ping Pong, Stardew Valley.
- Designed a Social Media website for pets (Full-Stack Web Development).
- Developed a Mobile Lyric Tracking App (Mobile App Development).
- Implemented cybersecurity and penetration testing, exploiting vulnerabilities (Cybersecurity).
- Active on GitHub (<https://github.com/horvana>) and CodePen (<https://codepen.io/Ivana-Horvatic>).

## **CERTIFICATES AND ACKNOWLEDGEMENTS**

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- React Certificate, Javascript Certificate
- Full Stack Web Development Certificate
- Volunteering: 4 weeks volunteering at Re-Cycle South Wales repairing bicycles (March 2020 - April 2020)
- Swansea Employability Award (SEA) - Completed the 2017 SEA Career Development Course.
- Cambridge Advanced English (CAE) Certificate (obtained CEFR Level C2) - 2017; Proficient in English and Croatian and speak basic German.

## **PERSONAL INFORMATION**

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- Green Book Club member (Worked in small groups to solve coding problems in a timely and efficient manner)
- I enjoy digital illustration and designing games using Python (My Itch.io: <https://horvana.itch.io/>)
- Holds full EU driving licence.
- Ability to obtain full security clearance.

## **REFERENCES**

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Available on request.