

Nicholas Curwood

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Summary

Aspiring Software Engineer with a strong academic foundation in Computer Science and Systems with a mix of practical and theoretical knowledge. My educational experience programming in object-oriented languages, JavaScript, and Python is complemented by my hands-on project experience in developing software solutions, conducting in-depth research, and applying agile methodologies to deliver ambitious solutions.

Project Experience

Portfolio Website www.ncurwood.ninja **2024**

JavaScript / HTML / CSS / ReactJS / CodeCommit / AWS / S3 / Route 53 / CloudFront / Front-End / Web Development

- Leveraged **JSX** to architect a dynamic **React** website showcasing professional background, educational takeaways, technical skill set, project descriptions, certifications, and a means of direct contact.
- Successfully hosted the site as a static webpage on **Amazon S3**, integrated with a personalized domain via **Route 53**, and globally distributed using **Amazon CloudFront** for optimized performance and delivery.

Artificial Life Vision Research [Evolutionary_Roboting_Hunting_Gathering.git](https://github.com/ncurwood/evolutionary_roboting_hunting_gathering) **2023**

JavaScript / Python / HTML / SQL / Machine Learning / Git Version Control / Back-End

- Collaborated in a 4-member team in an artificial life research venture, enhancing a virtual predator's hunting capabilities through binary vision.
- Implemented enhancements using **JavaScript** and utilized **Python** for key performance analysis, improving simulation realism.

Dungeon Adventure Game [Dungeon_Adventure.git](https://github.com/ncurwood/dungeon_adventure) **2023**

Java / Object Oriented Programming / SQL / Git Version Control / Agile Development / Front-End / Back-End

- Led a team of three** to pursue an ambitious project from conception to delivery, prioritizing user experience and employing **agile methodologies** to pivot quickly while facing challenges and evolving requirements.
- Established a **git repository for version control**, Integrated a **SQL Relational Database**, and separated classes logically to maintain a loosely coupled structure that easily supported modifications; resulting in the **successful delivery** of a dungeon adventure game that **exceeded expectations** and was **praised by the professor** as best in the class of 8 other teams

Work Experience

Security Analyst I **Transaction Network Services** **Seattle, WA, USA** **05/2024 - Present**

- AWS Security Assessments** - Evaluated **AWS** resources to ensure secure **Kinesis** data stream configurations and appropriate restrictions on outbound internet access for **Elastic IPs** on TNS' **EC2** instances.
- Software Request Reviews** - Reviewed and evaluated **enterprise-wide software requests**; gained familiarity with development technology capabilities and potential vulnerabilities to ensure compliance with **PCI DSS v4.0**.
- Security Assessments** - Conducted assessments on user access to align with standards such as **NIST 3100**, **ISO 27001**, **PCI DSS**, **SOC 1**, **SOC 2**, and **GDPR** to identify, mitigate, and manage risks across multiple environments.

Algorithms Grading Assistant **University of Washington** **Tacoma, WA, USA** **2023**

- Collaborated closely with Professor Chris Marriott in the TCSS 343 Algorithms course, efficiently evaluating and grading a class of 35 students
- Demonstrated an advanced understanding of **dynamic programming**, **recurrence relations**, and a wide array of algorithms enhancing the academic experience of students through detailed feedback and actionable insights

Education

Bachelor of Science **University of Washington** **Tacoma, WA, USA** **2021 - 2023**

Computer Science and Systems: 3.92 GPA

- AI & Knowledge Acquisition (TCSS 435), Introduction to Natural Language Processing (TCSS 456)
- Database System Design (TCSS 445), Software Development & Quality Assurance (TCSS 360)
- Data Structures (TCSS 342), Design & Analysis of Algorithms (TCSS 343), Programming Language Concepts (TCSS 380)

Certifications

AWS Cloud Practitioner **Amazon Web Services** **Valid Until:** **10/2026**

Security+ **CompTIA** **Valid Until:** **01/2027**

Skills

- Java | JavaScript | C# | Python | SQL | React | HTML | CSS | Git | Object Oriented Programming (OOP) | Amazon Web Services (AWS) | Dynamic Programming | Machine Learning | Backend Development | Full-Stack Development