

# 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 4+ years of experience programming in languages such as Java, C#, JavaScript, and Python are complemented by my hands-on project experience in developing software solutions, conducting in-depth research, and applying agile methodologies. My work in dynamic and collaborative environments demonstrates my ability to adapt and contribute effectively to team projects, underlined by a dedication to learning and applying new technologies in the field of software development.*

## Education

**Bachelor of Science** **University of Washington** **Tacoma, WA, USA** **09/2021 - 08/2023**

*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)
- Technology in the Service of Society (TCSS 401), Human-Computer Interface (TCSS 452)

## Certifications

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

- Foundational understanding of cloud technologies, including AWS core services, security tools, pricing models, Identity and access management, and deployment of resources

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

- Proficiency in Cybersecurity fundamentals, encompassing network security, risk management strategies, identification of security vulnerabilities, and implementation of threat mitigation techniques

## Project Experience

**Portfolio Website** [www.ncurwood.ninja](http://www.ncurwood.ninja) **01/2023 - Present**

*JavaScript | HTML | CSS | React | CodeCommit | AWS | S3 | Route 53 | CloudFront*

- 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) **06/2023 - 08/2023**

*JavaScript | HTML | Python | SQL | Machine Learning | Git*

- 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

**Sentiment Analysis Research** [Sentiment\\_Analysis\\_Project.git](https://github.com/ncurwood/sentiment_analysis_project) **06/2023 - 08/2023**

*Python | Keras API | Natural Language Processing | Machine Learning | Git*

- Conducted comparative research on Convolutional Neural Networks (CNN) versus Bag-of-Words (BoW) algorithms for sentiment analysis on X (Twitter) data, focused on the ethics of AI-generated art.
- Leveraged Python and the Keras API, achieving a 20% higher accuracy rate with CNN, demonstrating its superior efficacy in distinguishing sentiment within natural language

## Work Experience

**Algorithms Grading Assistant** **University of Washington** **Tacoma, WA, USA** **06/2023 - 08/2023**

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

**Dining Room Busser** **Puerto Vallarta Mexican Grill** **Gig Harbor, WA, USA** **06/2021 - 04/2023**

- Demonstrated exceptional teamwork and collaboration skills in a customer-service environment, while simultaneously maintaining academic standards in education

## 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