# 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 software development.*

## Work Experience

**Security Analyst I**          **Transaction Network Services**          *Remote*          **05/2024 - Present**

- Risk Management - Conducted access reviews identifying individuals with expired privileges and aggregated data on all users to optimize the access review process for future quarterly reviews
- Monitoring - Monitored and tracked security incidents, providing a weekly report of all new incidents
- Security Awareness - Created engaging and informative security awareness tips, newsletters, and posters to be displayed in office locations internationally
- Threat Detection - Reviewed FIM logs and investigated modifications to critical system

## 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](#)          **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](#)          **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.

## 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.

## 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