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.

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

Project Experience

Artificial Life Vision Research   https://github.com/Nickcdub/Evolutionary_Robotic_Hunting_Gathering_BinocularVision.git

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   https://github.com/Nickcdub/Sentiment_Analysis_Project.git

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

Dungeon Adventure Game   https://github.com/Nickcdub/mOOnQuest.git

Java | Git | SQL | Agile | Object Oriented Programming | Model-View-Controller | Full-Stack Development
- Led a team of 3 to develop an intricate Java-based dungeon crawler game, featuring randomized layouts, diverse player classes, and a variety of enemies and bosses
- Adopted Agile methodologies such as Scrum and Continuous Integration to ensure rapid iteration progress while maintaining adaptability
- Resulted in a user-friendly and engaging game experience that exceeded expectations, coupled with robust technical documentation and evenly maintained code quality through bi-weekly code reviews

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 fast-paced dining environment, ensuring efficient operations and customer satisfaction
- Worked 20 hours per week while attending college full-time

Education

Bachelor of Science   **University of Washington**   *Tacoma, WA, USA*   **09/2021 - 08/2023**
- Computer Science and Systems: 3.92 GPA

Relevant Courses:
- 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