

# Aleksander Dimitrov

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## Summary and Skills

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US citizen and University of Arizona graduate with a double-major in Computer Science and Information Science & Technology. Detail-oriented quick learner aspiring to a position as a full stack developer.

- **Tech Skills:** Python, Java, HTML5, CSS3, JavaScript (JS), React.js, Node.js, C#/.NET, GitHub, Amazon Web Services (AWS), MySQL/ SQL, Unit Testing (JUnit)
- **Familiar with:** PHP, Ruby, R, Kotlin, Docker, AI, MongoDB/ NoSQL, Express.js, Unity, Plastic SCM, Blender, jQuery, Tableau, Jira, DigitalOcean, PuTTY, WinSCP, PowerShell
- **Preferred IDEs:** Microsoft Visual Studio/ VS Code, Eclipse, RStudio, Jupyter
- **Other Skills:** Scrum/ Agile/ Kanban, OOP, MVC, Data Mining/ Data Analysis

## Education and Certifications

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**Bachelor of Science** with double major in Computer Science and Information Science & Technology, 2023  
University of Arizona

- Named to iSchool Director's List of Distinguished Undergraduate Scholars

Prepared for Microsoft Azure Fundamentals (AZ-900)

Cisco Introduction to Cybersecurity: [https://www.credly.com/badges/4c5c3cd6-63b6-46ba-b0c3-767b2bfc1af4/public\\_url](https://www.credly.com/badges/4c5c3cd6-63b6-46ba-b0c3-767b2bfc1af4/public_url)

Microsoft Office Specialist Master: [verify.certipoint.com](http://verify.certipoint.com), 64V8-XVCo

Granite Falls High School, Granite Falls, WA: graduated 2019 with 4.0 GPA

## Experience

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**EYE Toolbox Full Stack Developer | Near Vision Institute, remote** 2023

- Implemented features based on Jira tickets with the Scrum workflow, using HTML/ CSS/ JS/ PHP code for the nurse dashboard part of the EYESeeClinic website and EYE Toolbox application
- Implemented a DatabaseIO class to refactor the backend PHP/SQL codebase and improve organization and efficiency in connecting to databases by using an object-oriented programming (OOP) approach
- Updated PHP and HTML/ CSS/ JS files to update the frontend of a form, take input from it, process it, and send it to a database, fixing the structure of the database using phpMyAdmin
- Secured the connection to a phpMyAdmin database containing vital Protected Health Information (PHI)
- Worked with administrative capabilities of Jira such as managing the workflow of boards, and leveraged Bitbucket to maintain the code base
- Utilized ChatGPT to assist in analyzing code snippets more closely

**EYE Toolbox Backend Developer (Contract) | Near Vision Institute, remote** 2022

- Moved the clinic towards the goal of determining those who need comprehensive eye exams
- Refined a recipe for making Amazon EC2 instances/ AMIs to set up the backend architecture for a developer environment, utilizing Amazon EC2, RDS, VPC, and other AWS services
- Worked on vision screening consent forms with HTML/ CSS/ JS/ PHP in collaboration with a few students from UW Bothell
- Staffed the Auburn High School Vision Screening event, entering about 80 students into a MySQL database and monitoring data using phpMyAdmin

- Designed a dashboard to view the screening event results from the MySQL database

**Software Engineering Intern | Near Vision Institute, remote**

2020

- Moved the clinic towards the goal of improving security to reach HIPAA compliance for a custom optometry toolbox app (<https://n-od.com/>)
- Deployed Amazon EC2 instances to set up the backend architecture for a sandbox environment
- Utilized WinSCP and PuTTY to SSH remotely for secure file transfers, and edited application configuration files using Nano and Vi/ Vim to update them to PHP 7+
- Used Git through AWS CodeCommit to share files between teammates

**Mentor | Tutor | Boys' & Girls' Club, Granite Falls, WA**

2018

- Taught students general coding principles in FIRST/ Junior FIRST League robotics
- Tutored students to assist with homework, primarily math

**Projects**

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- Solar App – <https://solar-37ce.onrender.com/>
  - Developed a study app using HTML/ CSS/ JS in a team of 3
- Mastermind App – <https://github.com/AleksDimitrov/Mastermind.git>
  - Designed my own version of the classic game Mastermind in Java using the MVC design pattern
- Proto Station Gamma – <https://lniemann.itch.io/proto-station-gamma>
  - Developed a 3D first-person shooter game in a team of 5 using C# and Unity
- Alara's Workshop – <https://lniemann.itch.io/alaras-workshop>
  - Developed a 2D tower defense game in a team of 5 using C# and Unity
- One Bolt – <https://thetruegoldking.itch.io/one-bolt>
  - Developed a 2D platformer game in a team of 5 using C# and Unity
- For more (mostly in progress) projects, see my GitHub: <https://github.com/AleksDimitrov>