

SVIATOSLAV RUTKOVSKYI

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PROFILE

Highly motivated software engineer looking to work my dream job, equipped with quick learning ability proven by academic success. Able to work under pressure, provide outstanding leadership, and maintain personal and professional integrity, given my experience as a sergeant in the US Army Reserves. Passionate about new technology within software engineering such as AI and ML. I enjoy hiking and playing guitar as hobbies.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C#, JavaScript, SQL, R, HTML/CSS

Developer Tools: VS Code, MySQL Workbench, R Studio, IntelliJ, PyCharm, WebStorm

Technologies/Frameworks: GitHub, ReactJS, NodeJS, ExpressJS, Git, Docker, Postman

Soft Skills: Quick Learning Ability, Communication, Logical Thinking, Task Management, Problem-Solving

Spoken Languages: Native Speaker of Ukrainian, Fluent in English and Russian

Relevant Coursework: ML, AI, Data Structures & Algorithms, Databases, Client/Server, Cryptography

PROJECTS

Asymmetric Encryption App | [Github](#)

12 2024

- Implemented advanced cryptographic algorithms including SHA3 (sponge and SHAKE functions) and an elliptic-curve encryption scheme (ECIES) in a Java application.
- Utilizes SHA3 functions to compute hashes, authentication tags, and encrypt a user-specified file, as well as decrypt the cryptogram and verify the MAC
- Utilizes ECIES functions to create public keys, encrypt a file under the public key sign it with Schnorr, as well as to decrypt the file with a private key, and verify it.
- Tech Stack: Java, IntelliJ, and Github.

Bookkeeping Web App | [Github Backend](#) [Github Frontend](#)

06 2024

- Full-stack web application for managing a book catalog (view/add/remove books and update ratings) with secure user registration, login, and role-based access control.
- Collaborated in a team of 5 to design and document a RESTful API backend (Node.js, Express, PostgreSQL), using Docker for containerization and tools like ApiDoc/Postman for API documentation and testing.
- Adapted to a new codebase by swapping projects with another team and developing a React/Next.js front-end that consumed their API, demonstrating flexibility and teamwork to deliver the project successfully.
- My Role: Team Leader, created and managed backend repository, resolved merges and pull requests, implemented POST for backend and frontend, communicated with other teams, fixed various bugs.
- Tech Stack: Typescript, React.js, Next.js, Docker, ApiDoc, Postgres, Postman, WebStorm.

Social Media Data Neural Network

06 2024

- Built and evaluated machine learning models (Naive Bayes, linear regression, and deep neural networks) to predict user demographics (age group and gender) from social media data.
- Achieved prediction accuracies of 64% (age group) and 82% (gender) using a neural network, improving significantly over the baseline accuracy (59%) and showcasing strong analytical and problem-solving skills.
- My Role: Project Leader, created baseline results, worked on the likes dataset, assisted other team members.
- Tech Stack: Python, scikit-learn, Keras, TensorFlow, Ubuntu VM, PyCharm.

Dungeon Crawler

12 2023

- Developed a Java Swing dungeon crawler game featuring randomly generated dungeons with monsters and collectible items, plus multiple playable heroes.
- Implemented game mechanics including a minimap, inventory system, turn-based combat, and save/load functionality, following an MVC architecture and other design patterns (Singleton, Factory) for clean, maintainable code.
- Created thorough JUnit testing for the entire back-end model.
- Created a UML diagram for the project, used Pivotal Tracker and Toggl to organize and delegate tasks, and to track the time spent on each task.
- My Role: Team Leader, created and maintained the repository, created most of the model, including recursive dungeon generation and the inventory system, and worked on the View-Controller.
- Tech Stack: Java, Swing, IntelliJ, GitHub, Pivotal Tracker, Toggl

EXPERIENCE

US Army Reserve <i>Sergeant, Bridge Crew Member, 12C</i>	07 2021 – Present <i>Marysville, Washington</i>
<ul style="list-style-type: none">• Demonstrated integrity, dedication, and mental fortitude through military training and duties, allowing me to perform under pressure.• Taught classes up to and exceeding army standards and provided mentorship to lower enlisted soldiers, setting them up for success.• Led and collaborated with team members in high-pressure environments, honing strong leadership and teamwork skills that translate to managing projects and coordinating with colleagues in tech settings.	

Home Depot <i>Sales Associate</i>	07 2022 – 01 2024 <i>Kent, Washington</i>
<ul style="list-style-type: none">• Quickly learned new skills and honed my communication skills, rapidly increasing my knowledge in new areas• Provided excellent customer service to a diverse customer base, in a timely and efficient manner.• Maintained a positive team environment while consistently meeting sales and service targets.	

EDUCATION

University of Washington <i>Bachelor of Science in Computer Science - CGPA - 3.9</i>	09 2022 – 03 2025 <i>Tacoma, Washington</i>
Bellevue College <i>Running Start</i>	09 2019 – 06 2021 <i>Bellevue, Washington</i>

EXTRACURRICULAR

- Participated in UWT SEP 2023 Programming Contest
- Participated in UWT MAY 2024 Programming Contest