Ivan Viro
ivan.viro1@gmail.com
Software Engineer

SKILLS

Programming Languages: Python, Java, C#, Javascript, Typescript, Rust, Haskell.
Frameworks / Ecosystems: AWS, Node.js, React, Angular, Flask, GCP, Azure, Docker, WebAssembly.
Human Languages: English, Russian.
Miscellaneous: Git, Vim, Unix, LaTeX.

WORK HISTORY

Amazon, AWS, New York, NY   September 2022 - present
Software Engineer II
- Automated AWS billing discounts for the largest customers, accounting for 11% of AWS revenue.
- Designed and delivered a billing anomaly detection auditor, which prevented >$1.2 billion in billing inaccuracy to date.
- Parallelized orchestration-based distributed billing automation, decreasing time to compute bills.
- Ownership, creation, and shipment of developer tools & telemetry, used daily by 15+ engineers.
- Used Java, Typescript, Python, & the AWS ecosystem.

Softheon, Remote - based in NY   June 2021 - September 2022
Software Engineer
- Developed a unified, extendable robotic process automation used by 100+ Health Insurance Carriers.
- Collaborated, designed & developed accessible and secure health insurance enrollment portals.
- Used C#, Typescript, HTML, CSS, SQL, Angular, Jasmine & Karma frameworks, and Azure.

echo3D, Remote - based in NYC   August 2020 - November 2020
Software Development Intern
- Developed new features for the browser-based developer console through CI/CD.
- Built and wrote documentation for a new SDK for integrating echoAR with JS and A-Frame.
- Used Angular, JavaScript, Java, TypeScript, and C#.

EDUCATION

New York University, New York, NY   August 2018 - May 2021
B.A. in Computer Science at the College of Arts and Science   GPA 3.3 (out of 4)

PROJECTS

- **Norn Scholar**   nornscholar.com   github.com/ivan-v/norn-scholar
  Key Tech: React.js, d3.js, Material UI
  A graphical tool for research exploring research papers by performing search of over 192 million research papers and visualizing the most relevant ones and references through dynamic links. Dramatically cuts down time overhead in exploring papers while also making the process more pleasant.

- **Piano Scribe**   virtualbard.com/piano_scribe   github.com/ivan-v/Piano-Scribe
  Key tech: Javascript
  Interactive online piano player with live transcription and MIDI playback, written primarily in JS. Input is possible through MIDI input, computer keyboard, and mouse.

- **Virtual Bard**   virtualbard.com   github.com/ivan-v/jaskiler-client
  Key tech: Python, Flask (hosted on Google Cloud Platform), HTML/CSS/JavaScript.
  Automated in-browser music generation. 100+ instruments, dozens of settings and parameters, and different levels of detail for the user to choose how much control over music generation.

- **Ottaviano**   virtualbard.com/ottaviano   github.com/ivan-v/ottaviano
  Key tech: Python
  Research and analysis of changes in style from two million pages of sheet music from IMSLP.

HOBBIES

- **Tabletop game design**
- **Historical Fencing**
- **Guitar, Nyckelharpa, Komuz**
- **Received a minor in Classical & Ancient Civilizations**