Andrey Trebler

Curriculum Vitæ

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andreytrebler
trebler

Personal Information

Date of birth	*05/04/1986*
Citizenship	*Norwegian*, originally from *Kazakhstan*
Marital status	*Married*, *father of 3*

Key Qualifications

Experienced *nix-oriented developer with passion for backend, system design, and design of APIs; interest in development of rich reactive web applications; and fun of using advanced features of Kubernetes for modern containerized deployment

Work Experience

01/2019–03/2022 **Full Stack Developer / Cloud Architect**, *eDrilling*, Stavanger, Norway.
Team lead and software architect responsible for transition to cloud and design of modern APIs. Development and deployment of higly available and scalable Kubernetes-native systems based on microservices architectecture. Design and implementation of HTTP REST(ful), SSE and WebSocket APIs. Development of reactive web applications

- Backend: `TypeScript/node.js (ES2021)`, `Go`, `Python`, `C++17/Qt`
- Frontend: `TypeScript/Vue.js (2/3)`, `TypeScript/React`
- DevOps: `Docker`, `Kubernetes`, `Azure`, `AWS`
- Technologies: `Redis`, `RabbitMQ/AMQP`, `WebSockets`, `OpenAPI`, `Traefik`, `Keycloak`, `Azure AD`

10/2016–01/2019 **Full Stack Developer**, *timeanddate.com*, Stavanger, Norway.
Development of numerical algorithms, APIs, and software for astronomical simulations

- Backend development (in `C99`) of internal and external APIs providing astronomical data
- Frontend development (in `JavaScript` using `D3` and `three.js` frameworks) of browser-based applications for astronomical visualization. `ECMAScript 5`, `CSS/SASS` and `HTML5`

03/2016–10/2016 **Software Engineer**, *Steinsvik*, Førresfjorden, R&D Department.
Development of software for fish farming industry

- Development (frontend and backend) of cross-platform software for camera control and monitoring at fish farms in `Qt/QML` and `C++11`
- Support of existing software implemented in `NI LabVIEW`

12/2013–02/2016 **Simulator Systems Analyst**, *MHWirth*, Stavanger, Simulators Department.
Development of real-time simulators for oil and gas industry

- Development of mathematical models for equipment simulation
- Control system software implementation
- HIL testing of control system software

10/2007–01/2008 **Software Test Engineer**, *ABBYY*, Moscow, Mobile software testing group.
Gray-box testing of applications for Symbian and Windows Mobile mobile operating systems

Education

06/2010–06/2013 **PhD Program in Atmospheric sciences**, *University of Oslo—UiO*, Faculty of Mathematics and Natural Sciences, Department of Geosciences.
Section for Meteorology and Oceanography

10/2008–05/2010 **PhD Program in Mathematical Modelling, Numerical Methods and Programming**, *Lomonosov Moscow State University*, Faculty of Computational Mathematics and Cybernetics.
Department of Nonlinear Dynamical Systems and Control Processes

09/2003–06/2008 **MSc in Applied Mathematics and Computer Science with speciality Mathematician, System Programmer**, *Lomonosov Moscow State University*, Faculty of Computational Mathematics and Cybernetics, GPA: 4.47 (out of 5.0).
Department of Nonlinear Dynamical Systems and Control Processes

Programming skills

GNU/Linux, macOS, OpenBSD

Programming	TypeScript/JavaScript (ES2021), node.js/Deno, Go, C99, C++17, Bash, Python, HTML/CSS/SASS
Frameworks	Qt, Vue.js, Angular, React, three.js, D3.js, express.js, Bulma/Bootstrap
DevOps	Docker, Kubernetes, AWS, Azure, DigitalOcean, GitHub Actions, Jenkins
Bug tracking systems	Jira, Redmine, GitHub, TFS
Technologies	Redis, RabbitMQ, WebSockets, AMQP, MQTT, SSE, OpenAPI/Swagger, Traefik/NGINX/HAproxy, S3, OAuth 2.0, Keycloak, WebGL, JSON-RPC, esbuild, webpack, Vite

Languages

Russian	Native	
English	Advanced	*IELTS 7.5 (L: 7.5; R: 8.5; W: 7.5; S: 7.0) ∼ C2*
Norwegian	Intermediate	*Norskprøve 2 (A2)*

Hobbies

IT, science, reading, chess, astronomy, table tennis, squash, volleyball, badminton, cars

Select Publications

[1] **A. Trebler**, R. L. Thompson, and S. Eckhardt, Estimating Primary and Secondary Sources of Persistent Organic Pollutants Using Inverse Methods, *Atmospheric Environment*, 2013–2015.

[2] **A. Trebler**, A. Stohl, and P. Seibert, "Identification of Greenhouse Gas Emission Sources Using Analytical Inverse Method," in *Algorithmic Analysis of Unstable Problems: Abstracts of the International Conference Dedicated to the Memory of V. K. Ivanov*, Institute of Mathematics and Mechanics, Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russia, 2011, `http://aanz.imm.uran.ru/aanz/AANZ-2011-final.pdf`.

[3] **Andrey Trebler**, On Cascades of Bifurcations Leading to Chaos in Several Nonlinear Dissipative Systems of ODEs, *Communications in Nonlinear Science and Numerical Simulation*, vol. 15, no. 10, pp. 2974–2986, 2010, doi: 10.1016/j.cnsns.2009.11.019.

[4] **Andrey Trebler**, A Transition to Chaos in Rucklidge Model of Double Convection, in *CIMCA '08: Proceedings of the 2008 International Conference on Computational Intelligence for Modelling Control & Automation*, 2008, IEEE Computer Society, pp. 952–957, doi: 10.1109/CIMCA.2008.46.