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AHMET EMRE CEPOGLU

Systems and Full-Stack Engineer

10+ years of experience designing and building data intensive systems with international teams.

I enjoy functional programming, systems design, systems & tools development, working in the entire stack, math, patterns and teaching.

I am also interested in sustainability efforts, fighting games, squash, tea and gardening.

SR SOFTWARE ENGINEER AT ARUP

2022 - now

NodeJS	React	Raised the skillset of mostly Jr staff by organising mentoring sessions and balanced (with difficulty!) development responsibilities with my team's demands for me. Identified, planned and solved tech debts: I aligned error-handling with best practices, introduced TypeScript. Generalised async communications and React components. Improved test reliability: Paralellised tests and shortened automated tests runtime from 2hr to 10'. Made tests explicit and simplified assertions to remove false negatives by 91%. Designed systems for managing data and saved 40k\$/mo by
Kafka	AWS	
Kubernetes	ElasticSearch	
PgSQL	graph DBs	

SR DATA ENGINEER AT SOOSTONE

2021 - 2022

Haskell	Python	Planned and executed an iterative take-over of NodeJS microservices by Haskell monolith. Led a team to develop event-sourcing pipelines and improved relevance of content suggestion: sourced data from across the system to establish a user and content insight. Identified costly manual processes and automated them with CLIs and e2e tests: Replaced a 1 day/week manual job with a script. Improved D
NodeJS	React	
PgSQL	Nix	

SOFTWARE ENGINEER AT ESEN S. I.

2012 - 2020

AI	big data	Built 2 telemedicine products; earning the company 150k\$/mo and providing the only income revenue for a company of 20. Co-lead to prototype and build a big-data analytics system used by multiple countries: Grew my team from 1 to 13 and earned the company 1.5M\$ and opening a multi-M\$/year revenue channel. Met stakeholders to plan and deliver features. Developed and implemented computer-vision algorithms. Learned and taught new technologies, getting them adopted across the company: Pioneered CI, CD, containerisation paradigms. Gave workshops on Docker, CI, automated-testing, functional-programming.
Scala	NodeJS	
AngularJS	Python	
Rails	MQTT	
RabbitMQ	Mongo	
Solr		

TECH LEAD AT DIGITAL STRATEGIES

2015 - 2016

lead	outreach	Led a team of 5+ doing full-stack development, making an online video-editor. Gave seminars and managed priorities to meet launch goals
NodeJS		

CO-FOUNDER & MANAGER AT TEAM FROM BEYOND

lead AI	Unity game-dev	Recruited, sponsored and managed programmers, modellers, animators, voice actors, concept artists to create a 3d game. Implemented a multi-agent responsibility-sharing creature AI.
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BiPOSTA

APL C	BQN Unix	E-mail client built from scratch, for rapid consumption of e-mails so your inbox doesn't grow to 4208 unread emails... again.
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TwITCHY-POISON

Elixir TUI ffmpeg	OTP Websockets	Streaming suite for twitch.tv featuring everything you need and more: a chat app, task manager that takes you to a state of flow, work-out planner, integrations w/ your favourite text editor, a chat bot...
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UNIFIEDJS/UNIFIED-LANGUAGE-SERVER

JS	GitHub sponsorship	Language server for prose; using unifiedJS ecosystem. Authored it and donated it to the UnifiedJS organisation.
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OTHER PROJECTS

Elixir game-dev multiplayer	distributed computing Unity C#	DORT A high-paced multiplayer backgammon-like clash-of-clans-like game. Features cross-platform ranked matchmaking and a rollback-like netcode.
OCaml	Elm	WHY DVORAK Visualises arguments for why Dvorak is a more efficient keyboard layout. Created an Elm-like frontend framework.
OCaml	HTMX	PORTOPHILE Full-stack web app to parametrically generate portfolios.
C AI Lua	SDL2 game-dev	AEC'S YZ-01 Built a top-down game engine that's scriptable with Lua. Bulit a game on top of it to demo my AI models on.
JS AI	React	HEURISTICS DRIVEN TETRIS BOT Competed in (now dead) TheAIBattle.com competition with AI bots I wrote. Ranked top 10.

CORP ESCAPISM

Scheme AI	Tcl	Collection of utilities I wrote to ease my interaction with systems I use at work. Creates tickets automatically from comments, logs timesheets, assists in code reviews, reminds people to review my PRs...
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KAMP-US/MONOREPO/SOZLUK

TS GraphQL	mentoring	Assisting Jr devs with systems design and feature development
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CS MAJOR FROM BILKENT UNIVERSITY

AI	ML	Built an OCR for music sheets in my freshman year. Created an automatic video tagger.
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