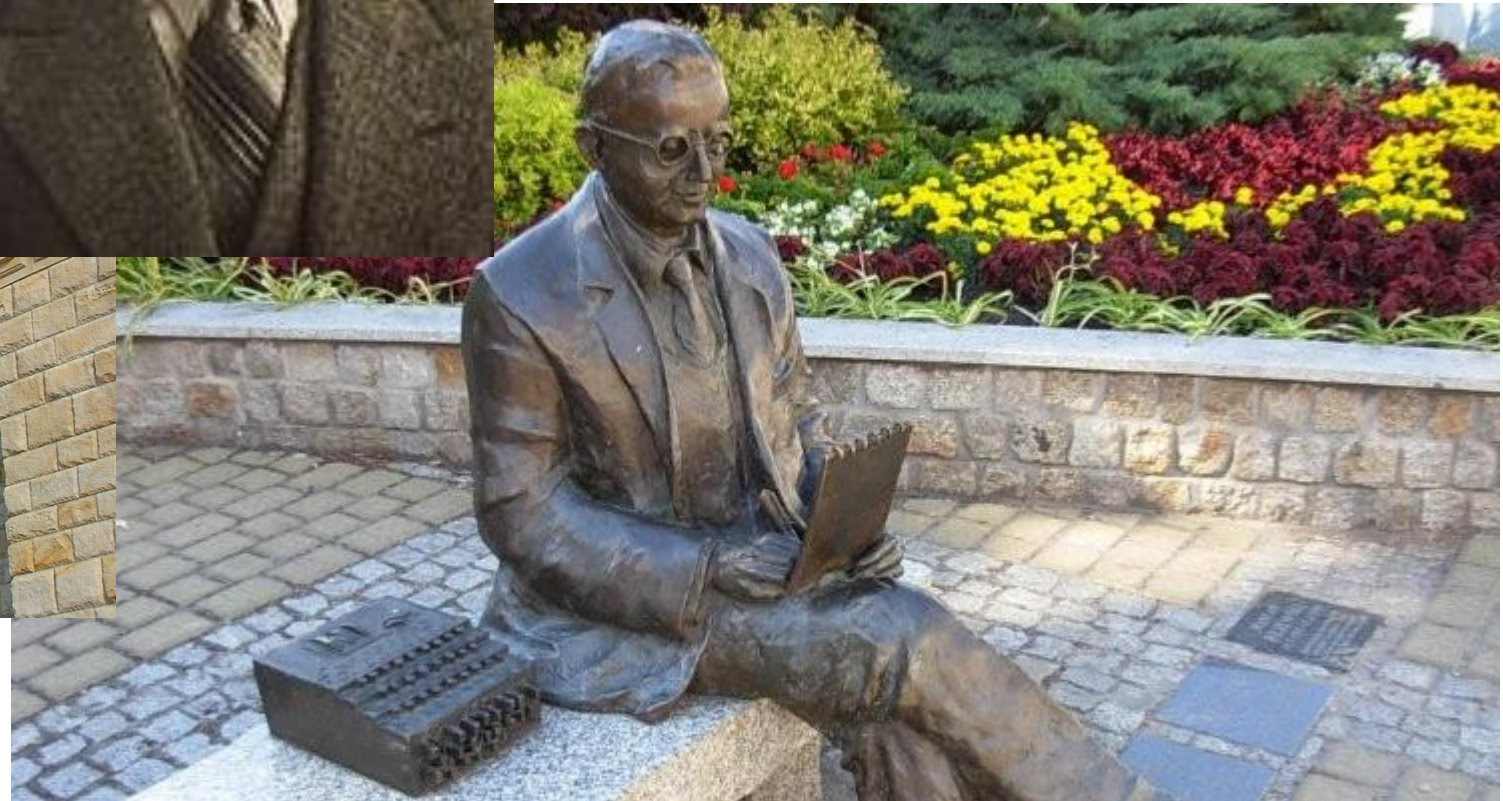
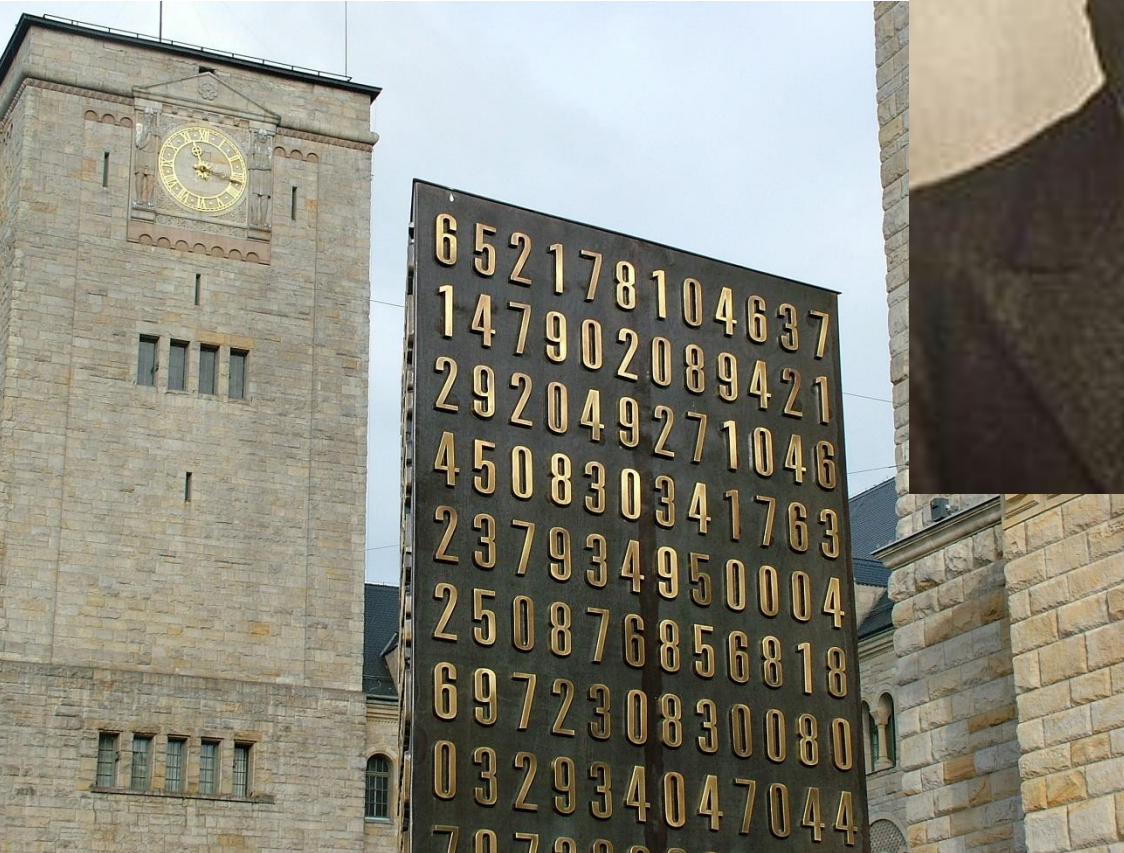


Marian: Homecoming

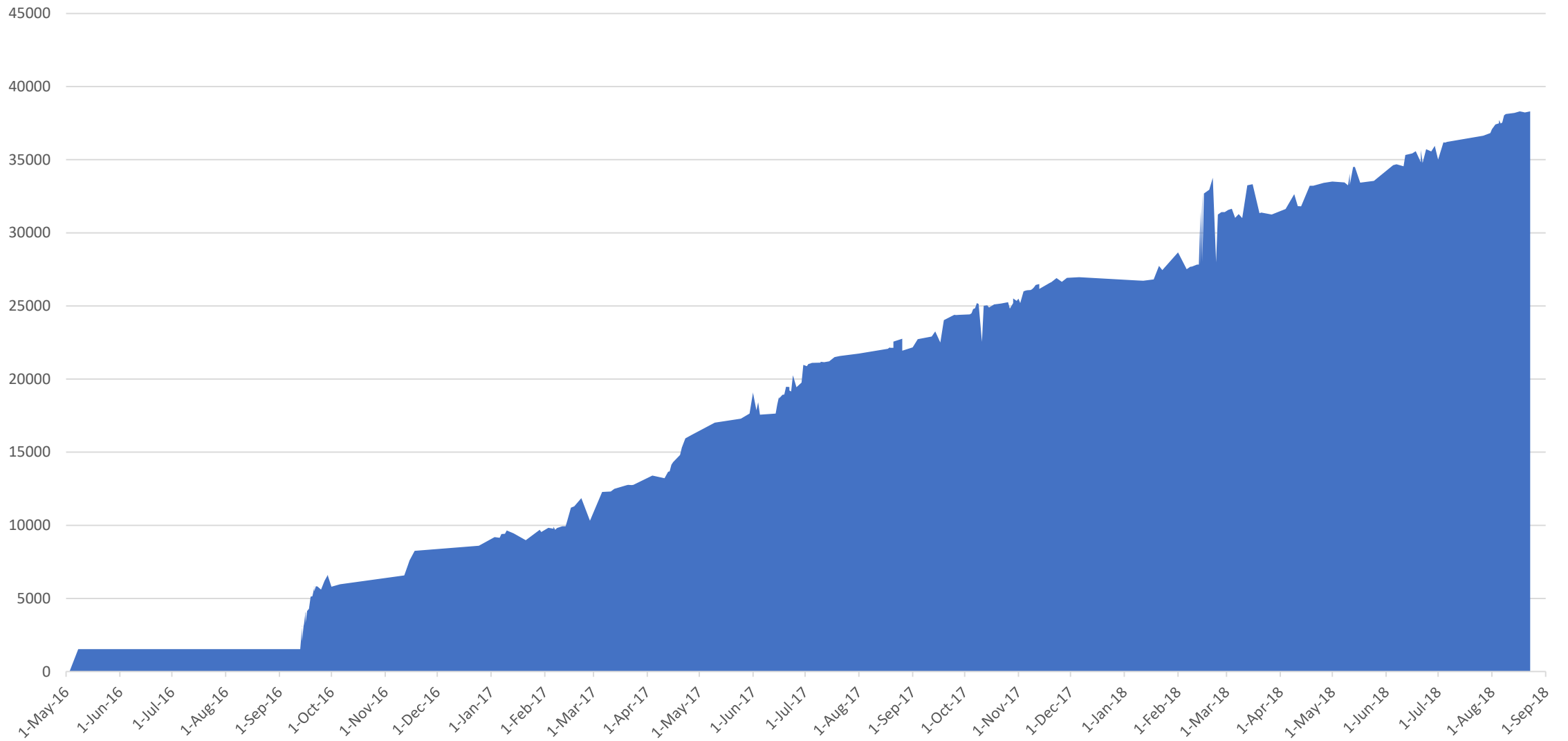
Marcin Junczys-Dowmunt

Translator

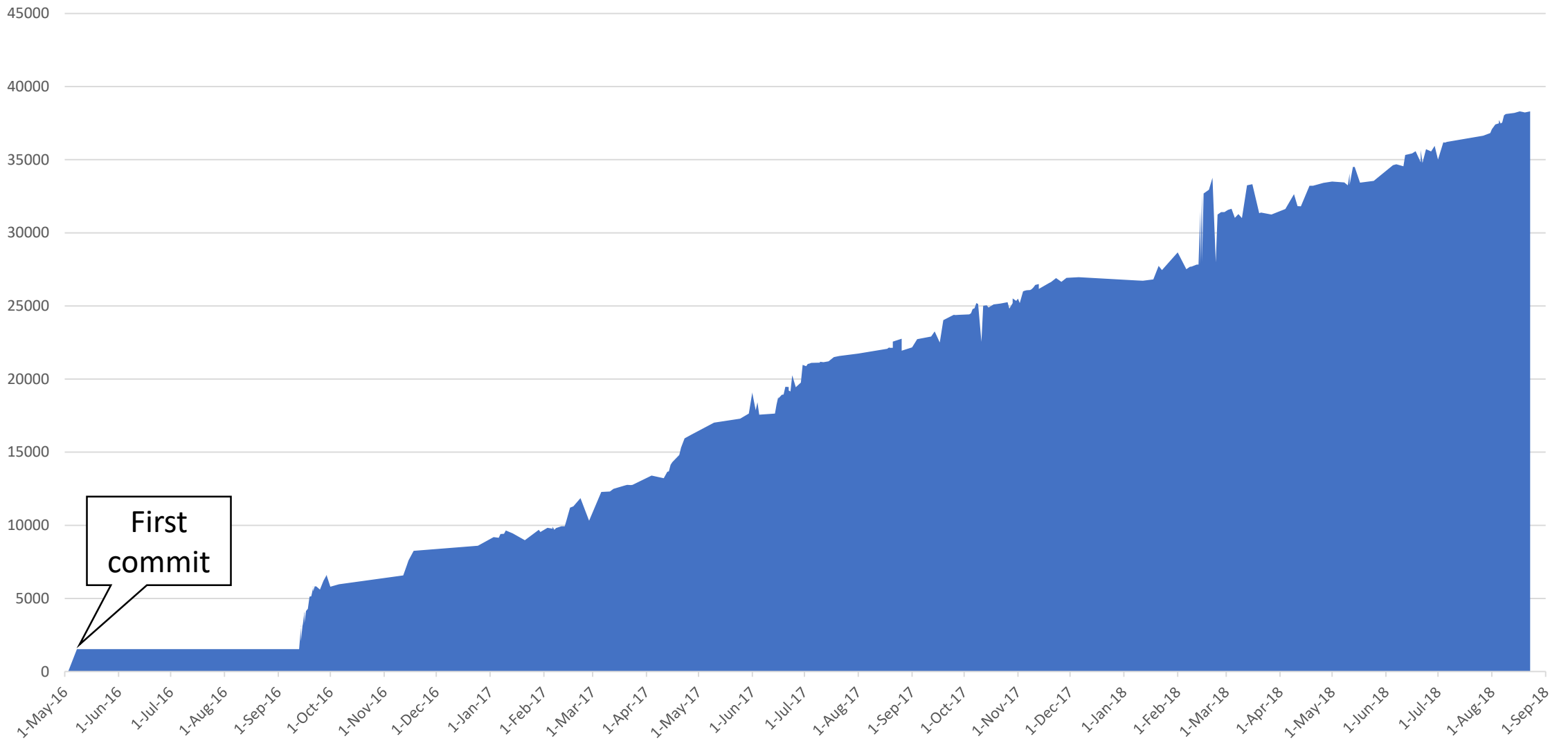
Marian Rejewski



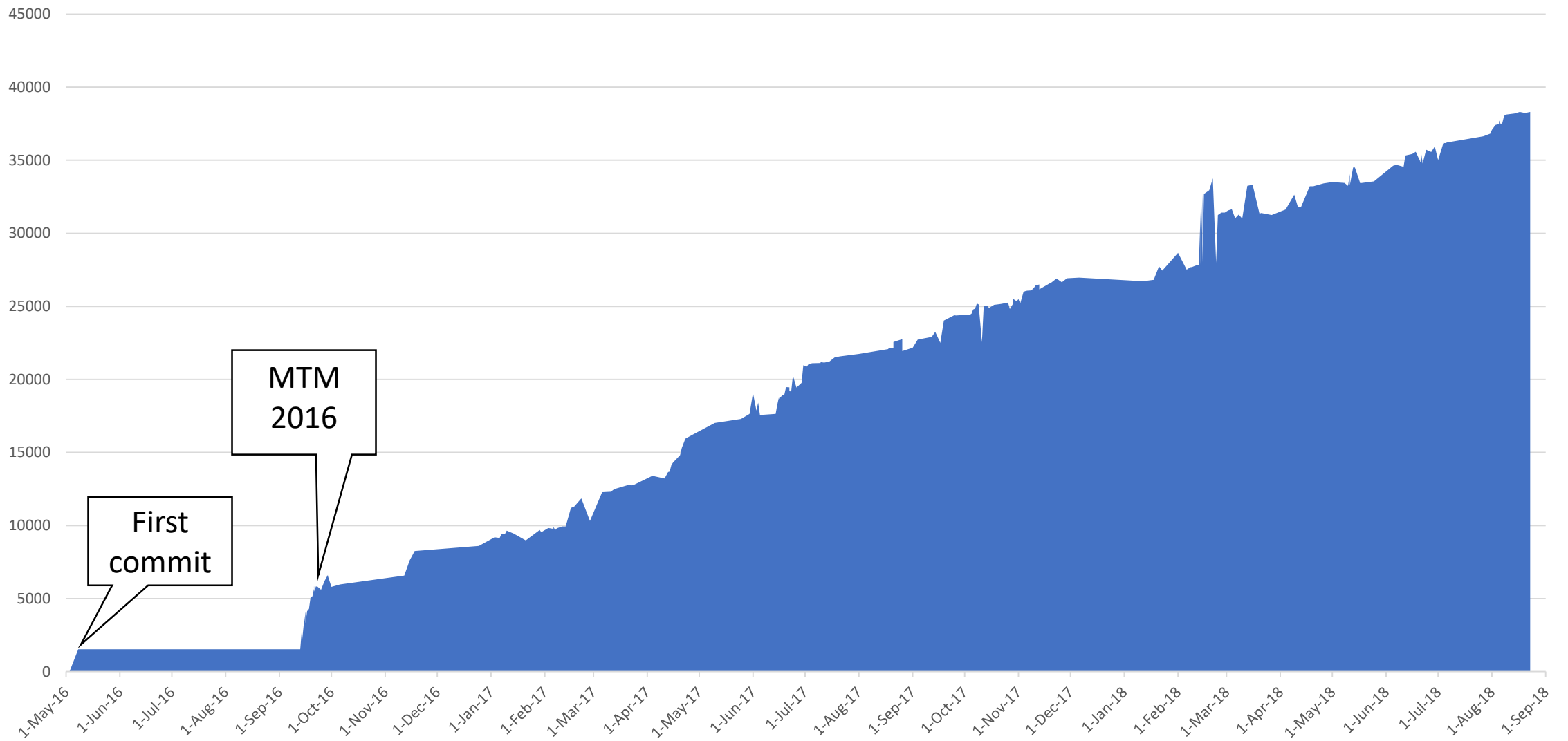
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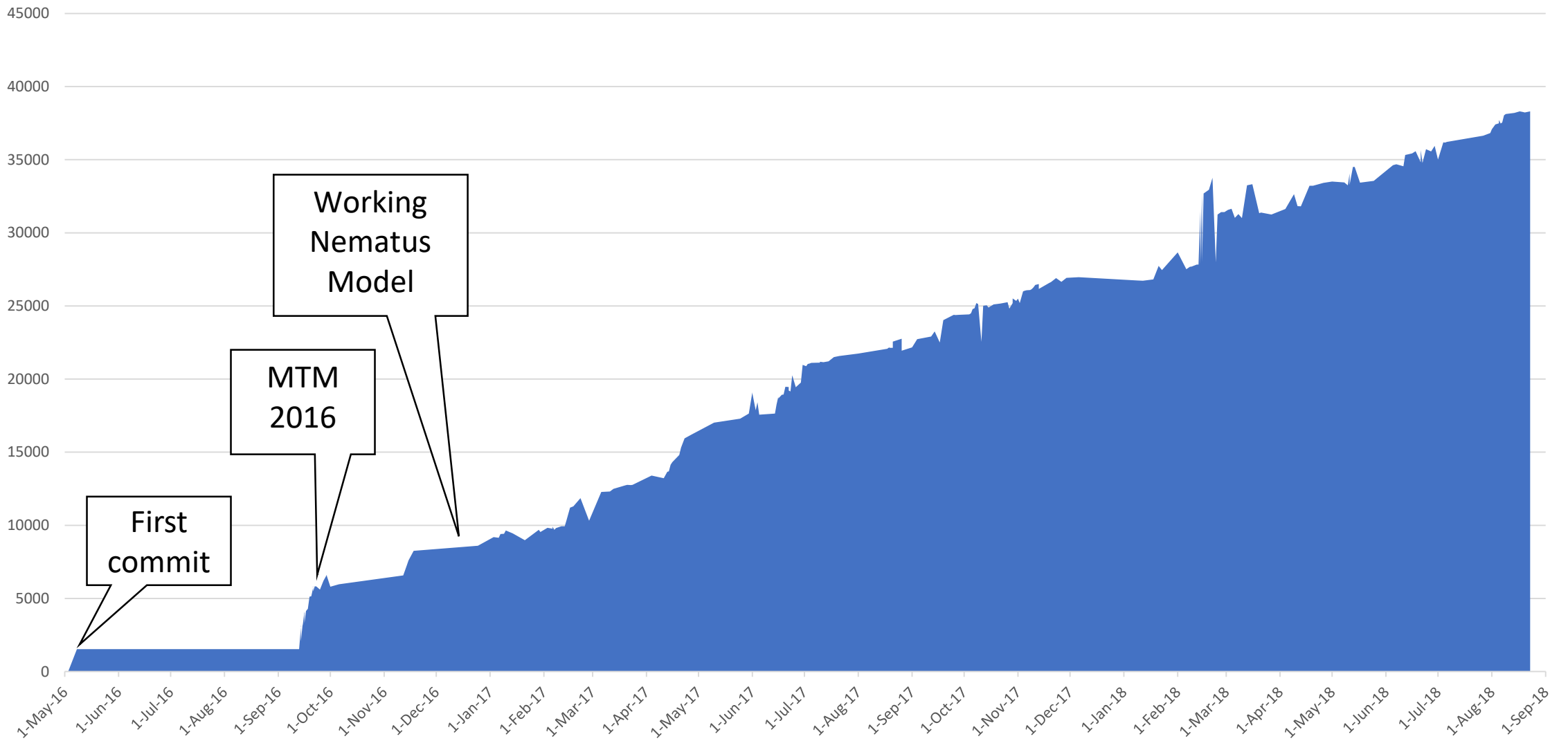
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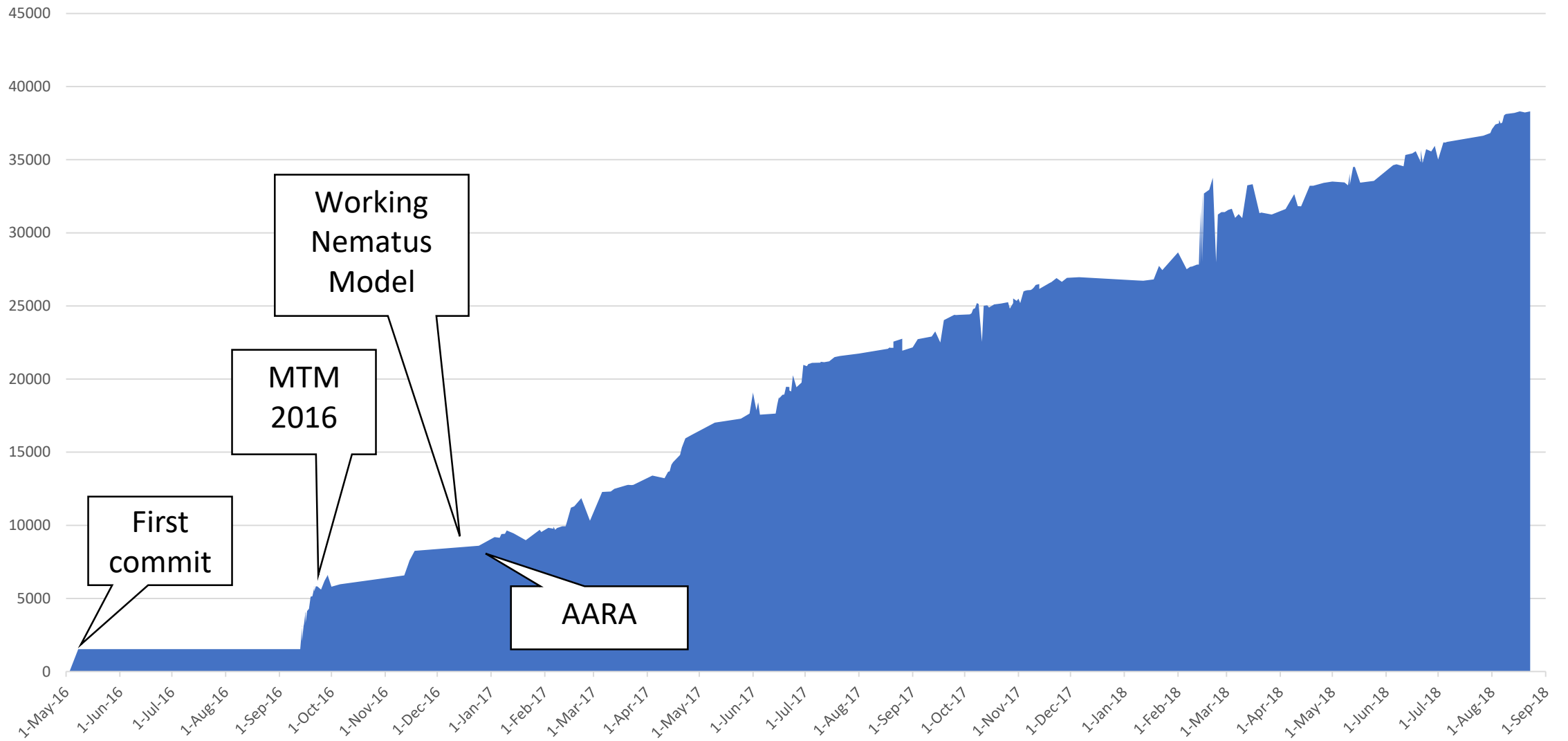
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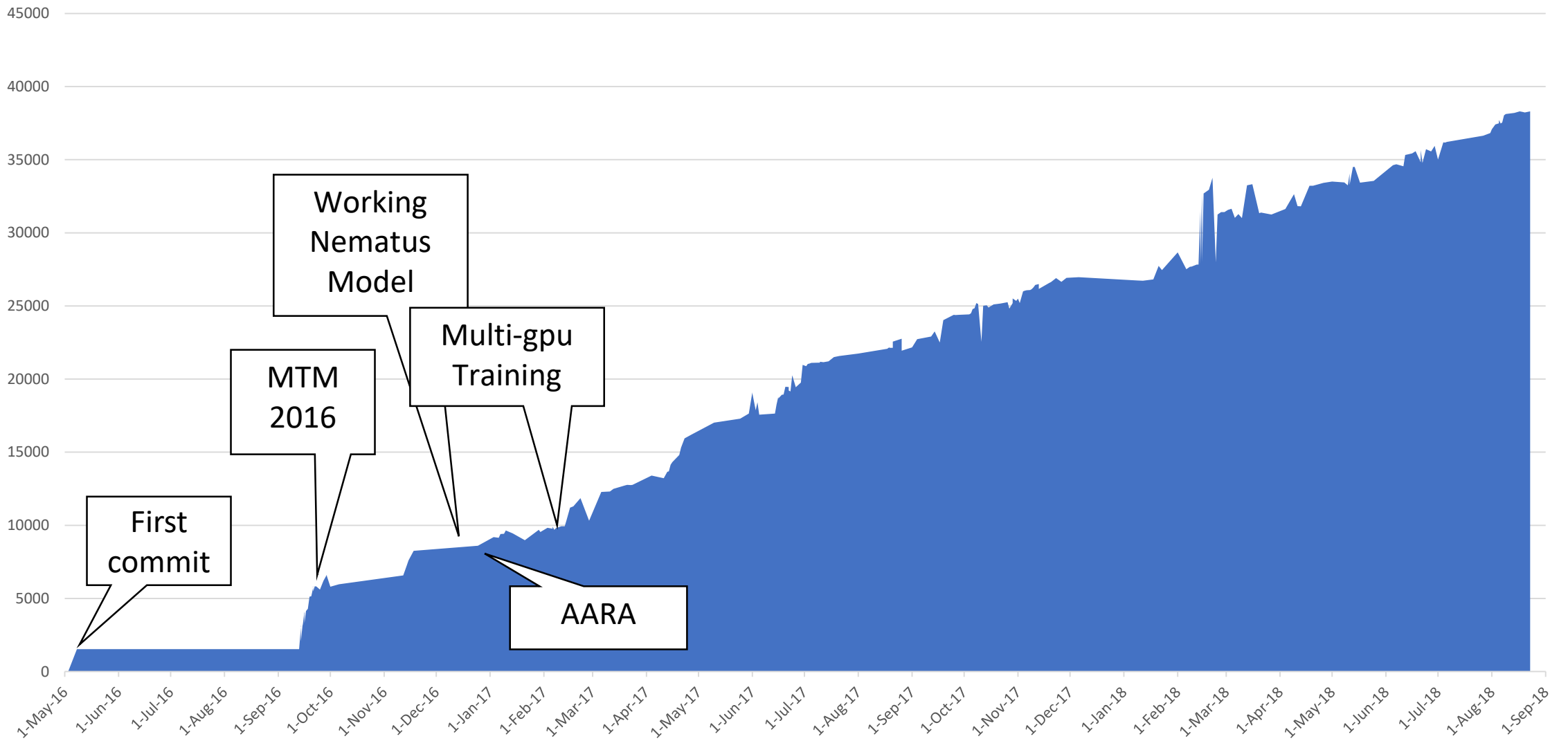
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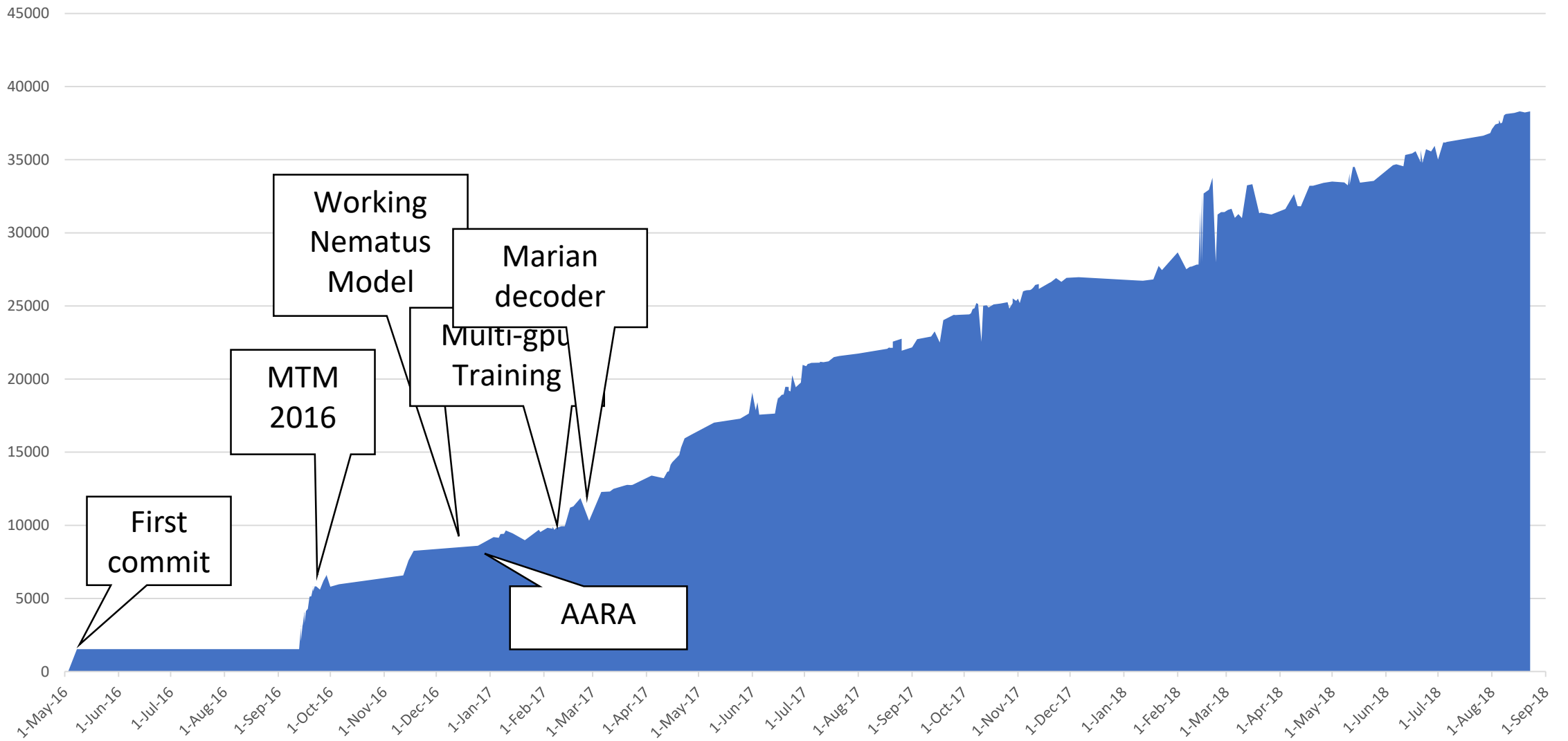
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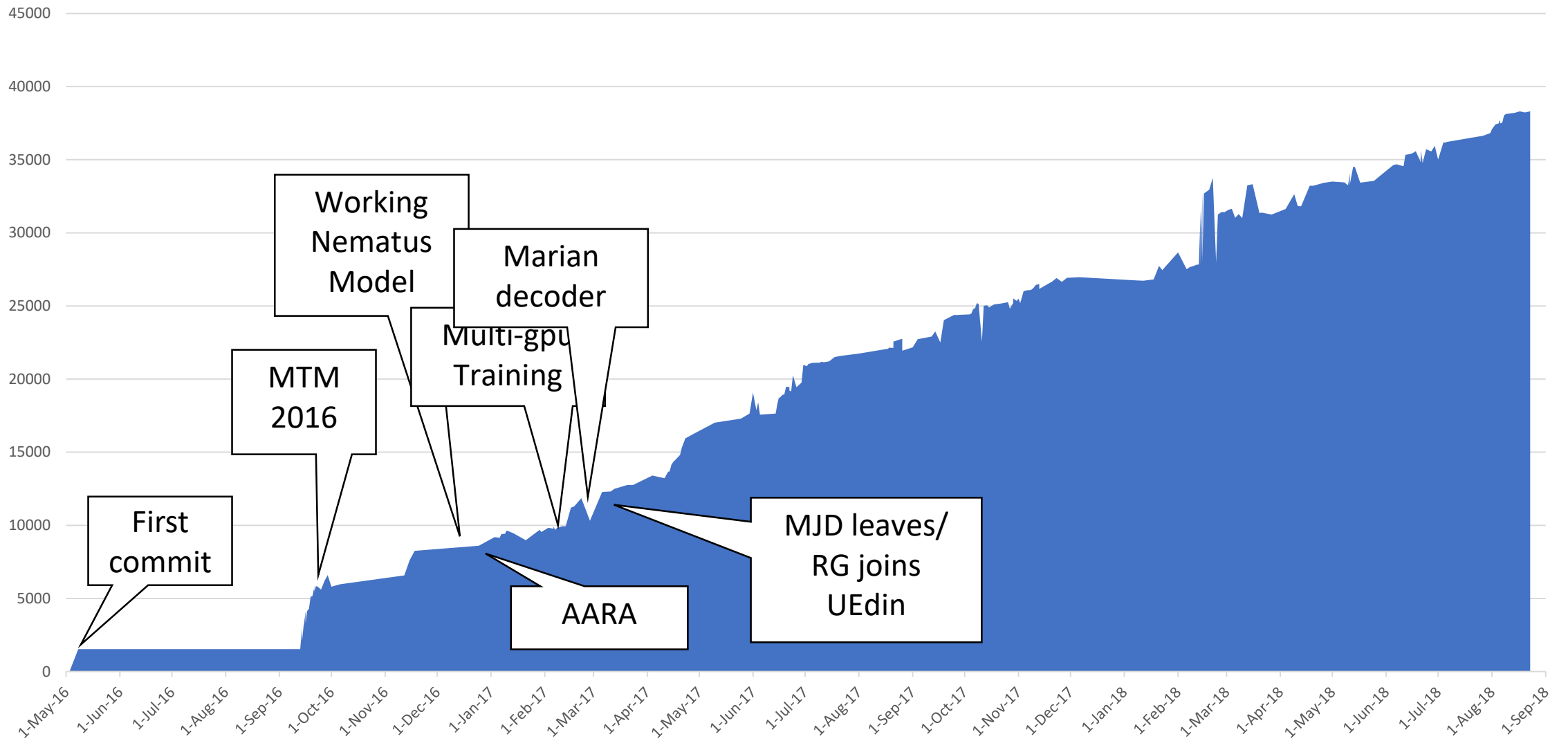
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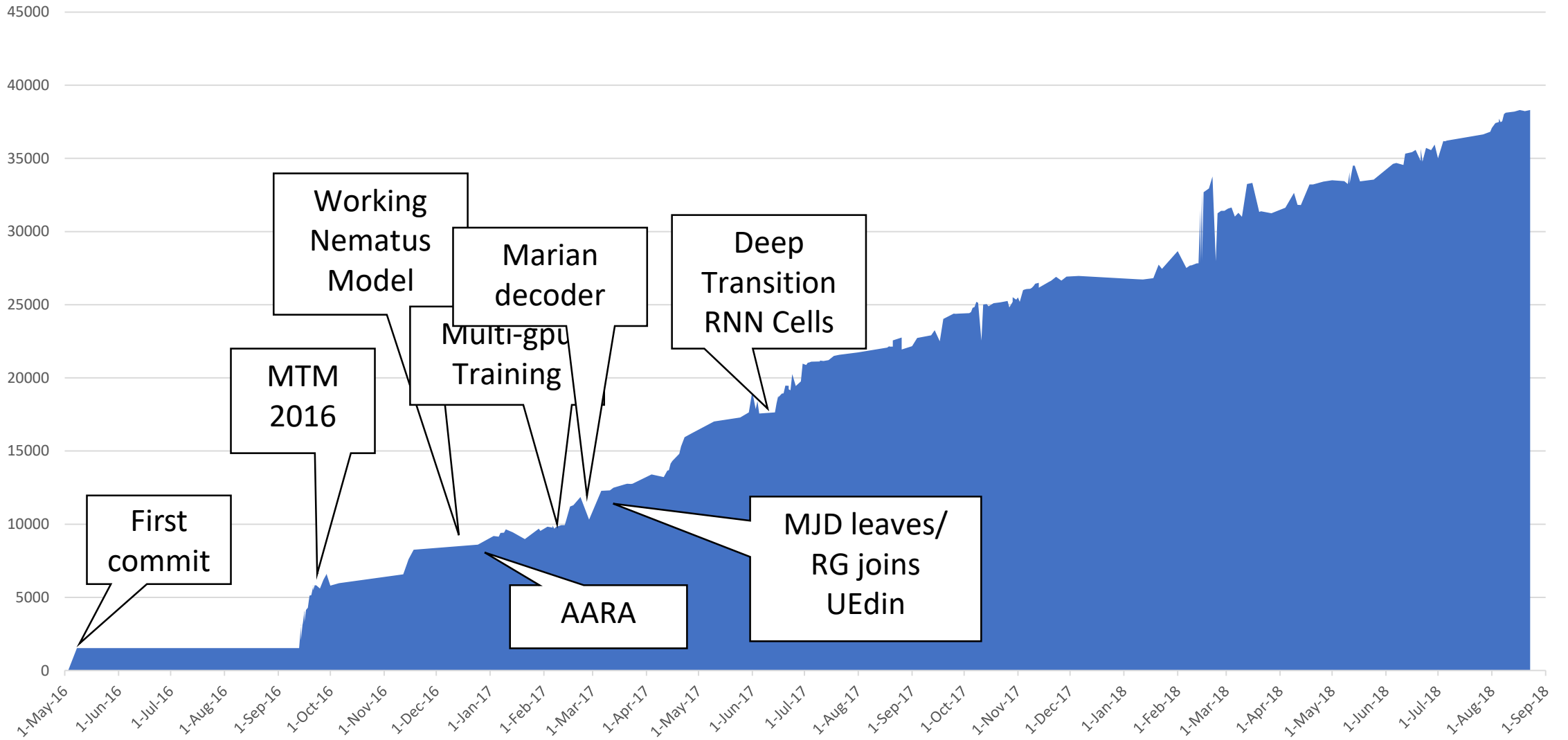
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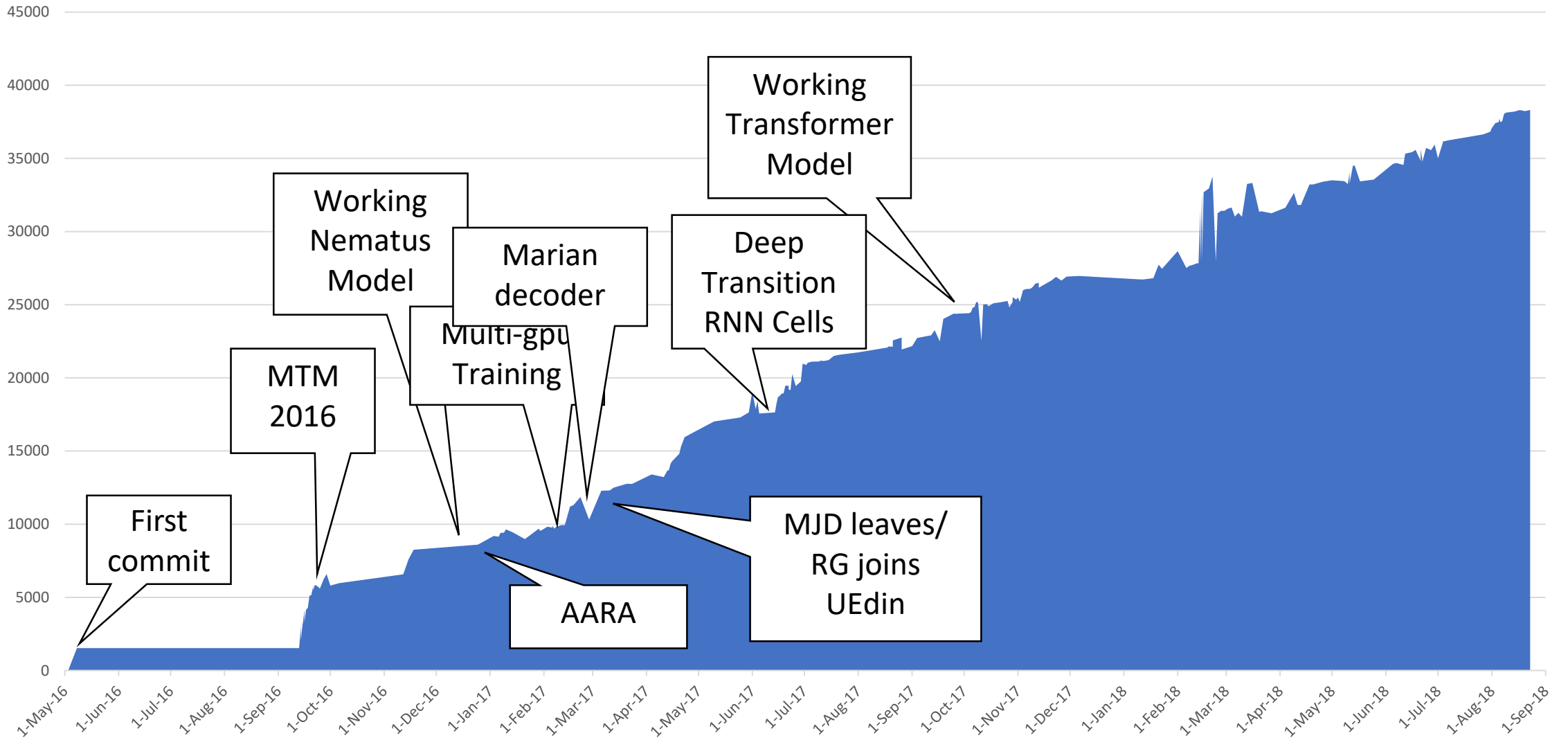
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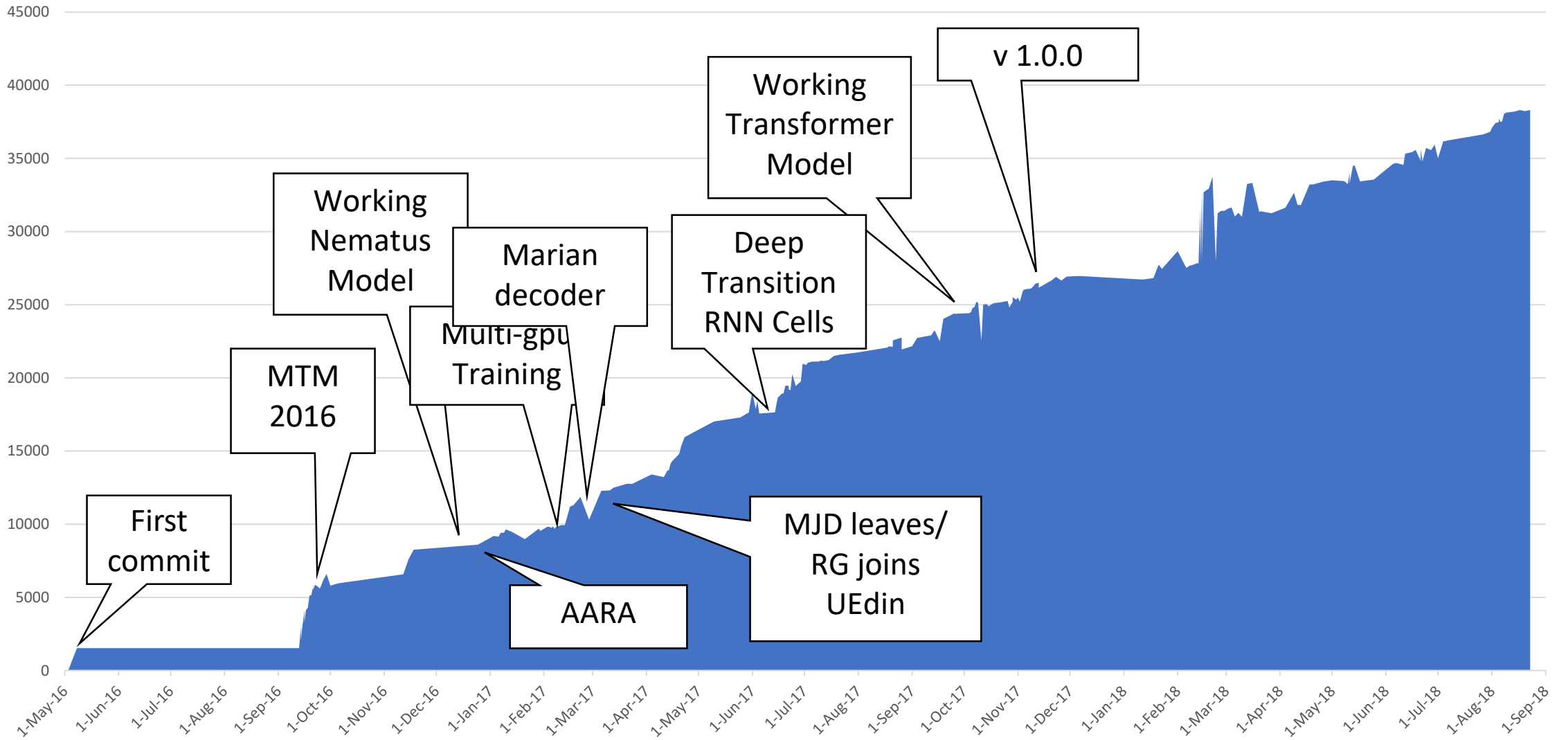
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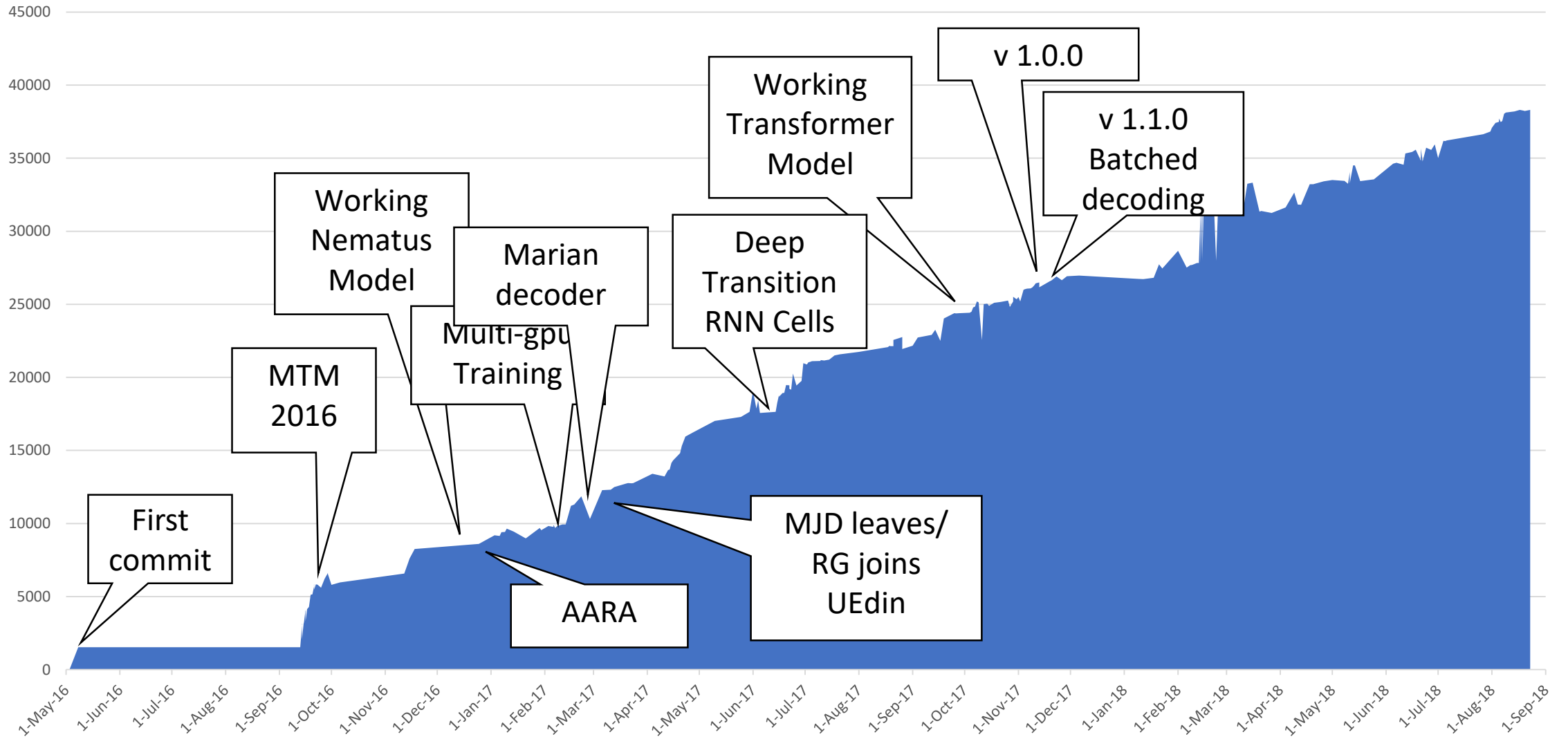
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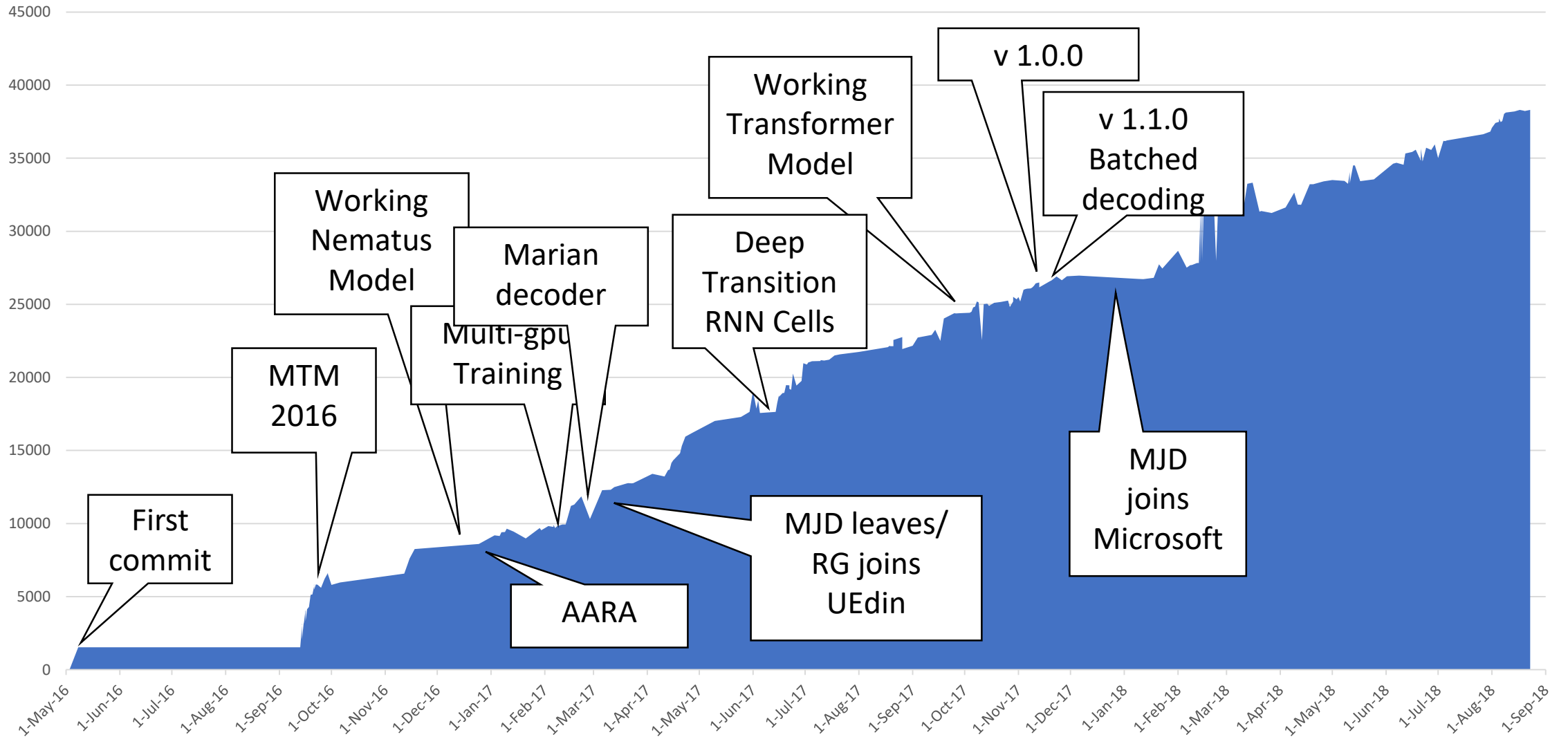
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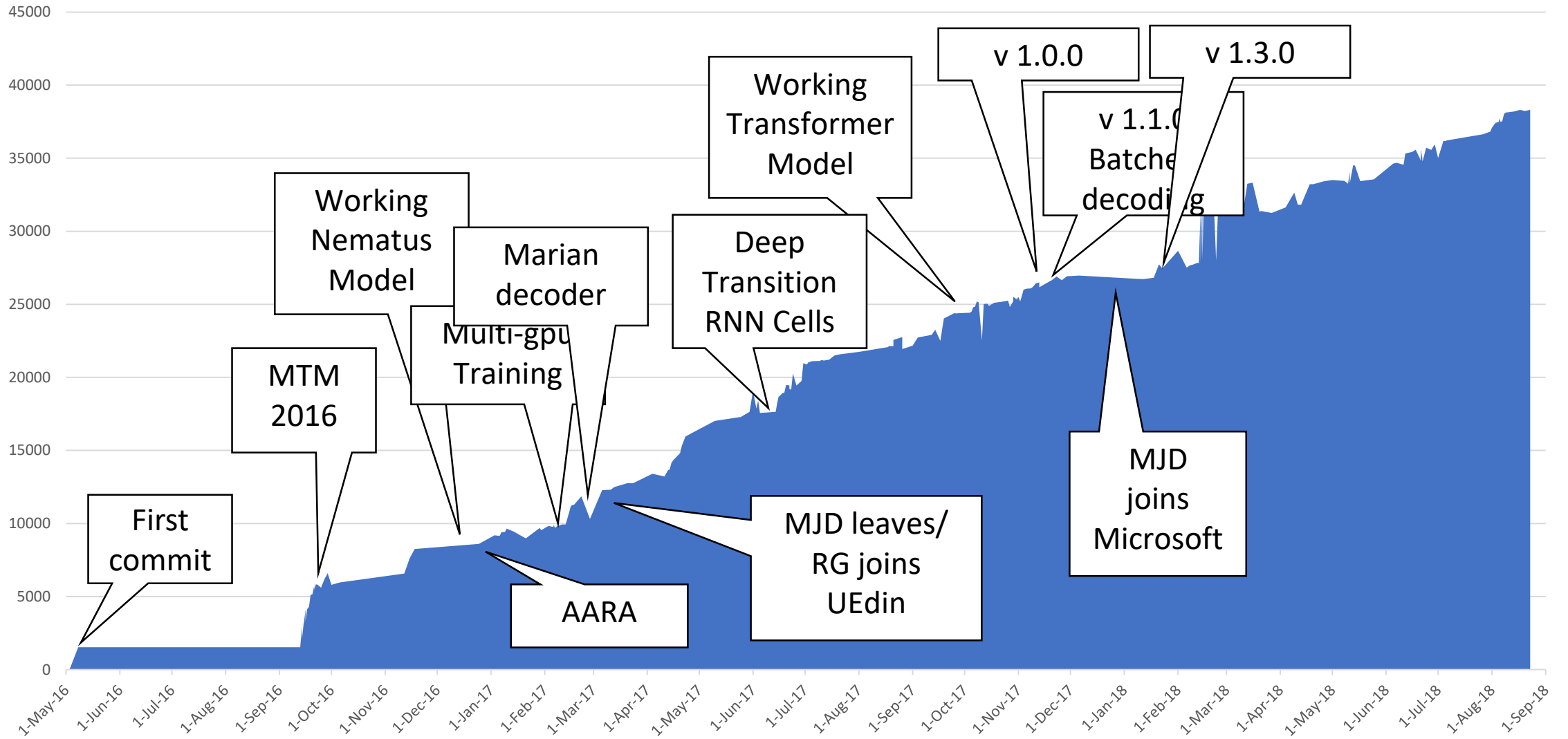
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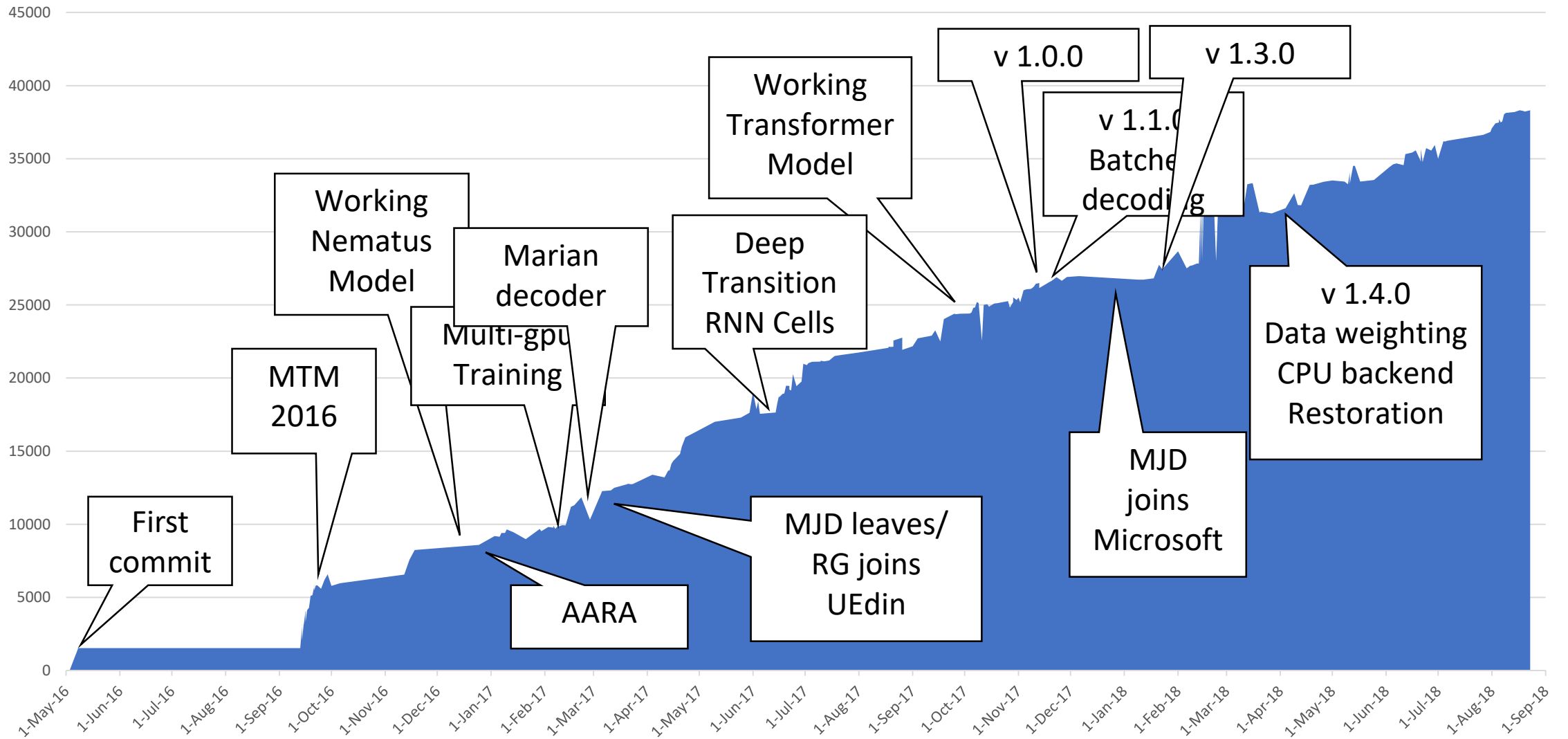
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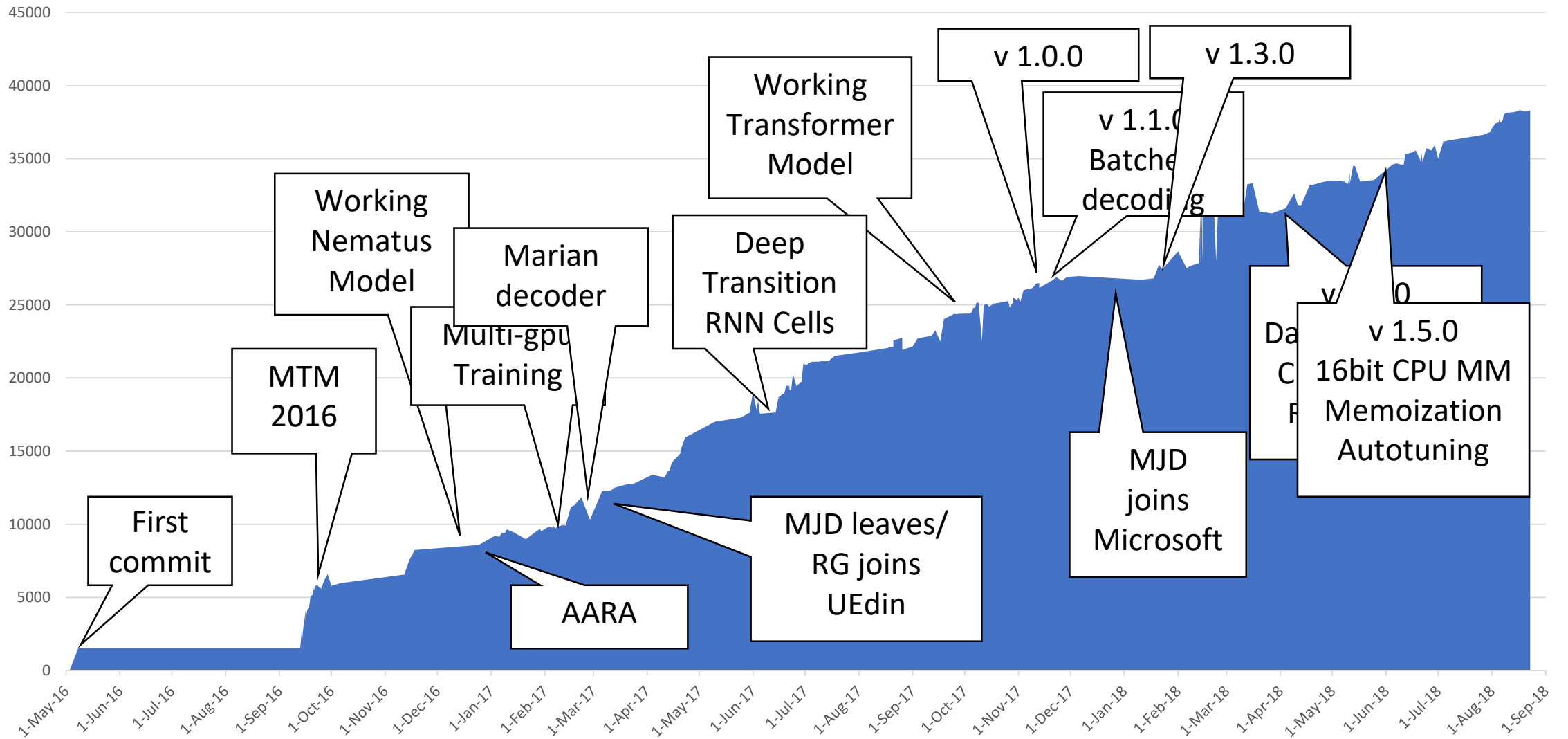
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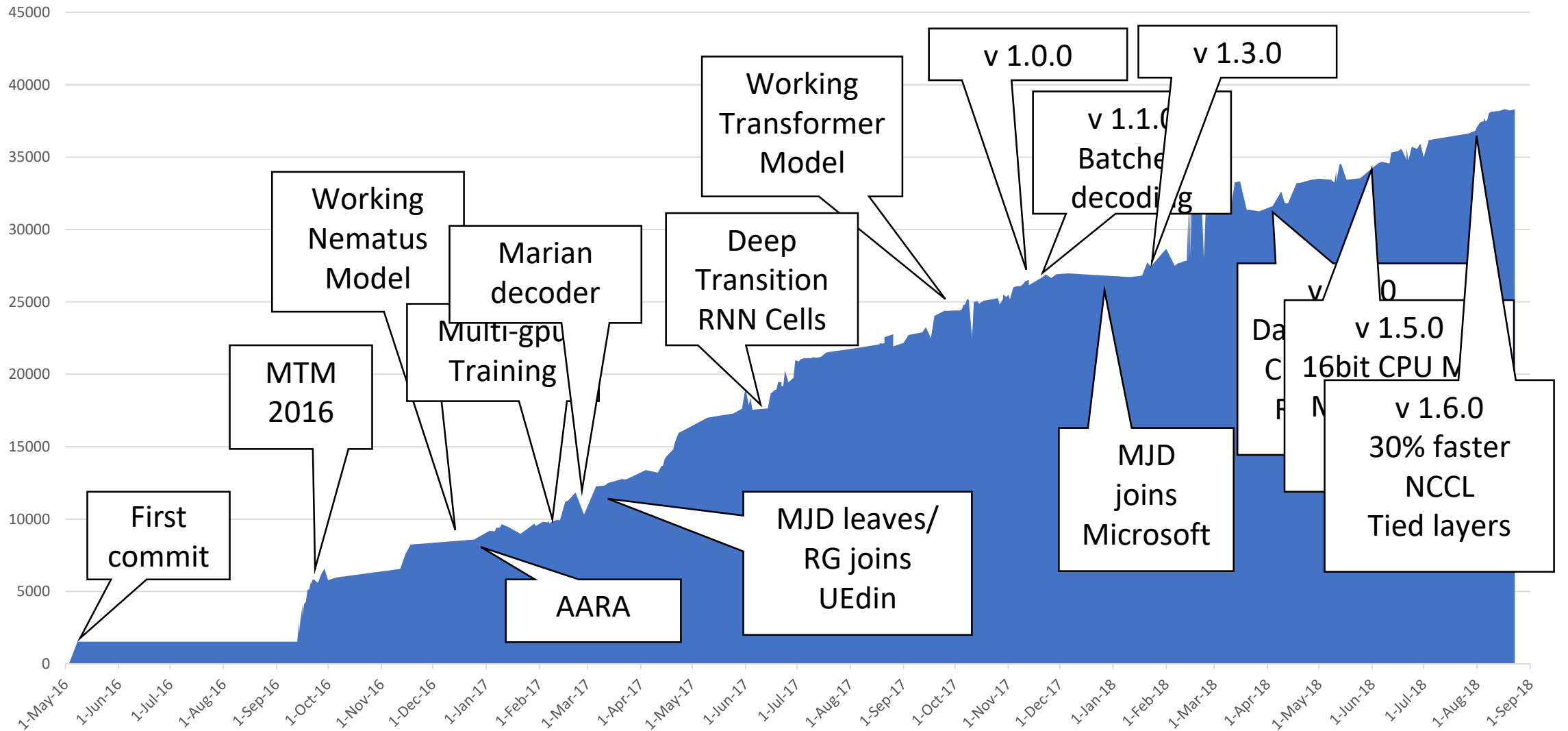
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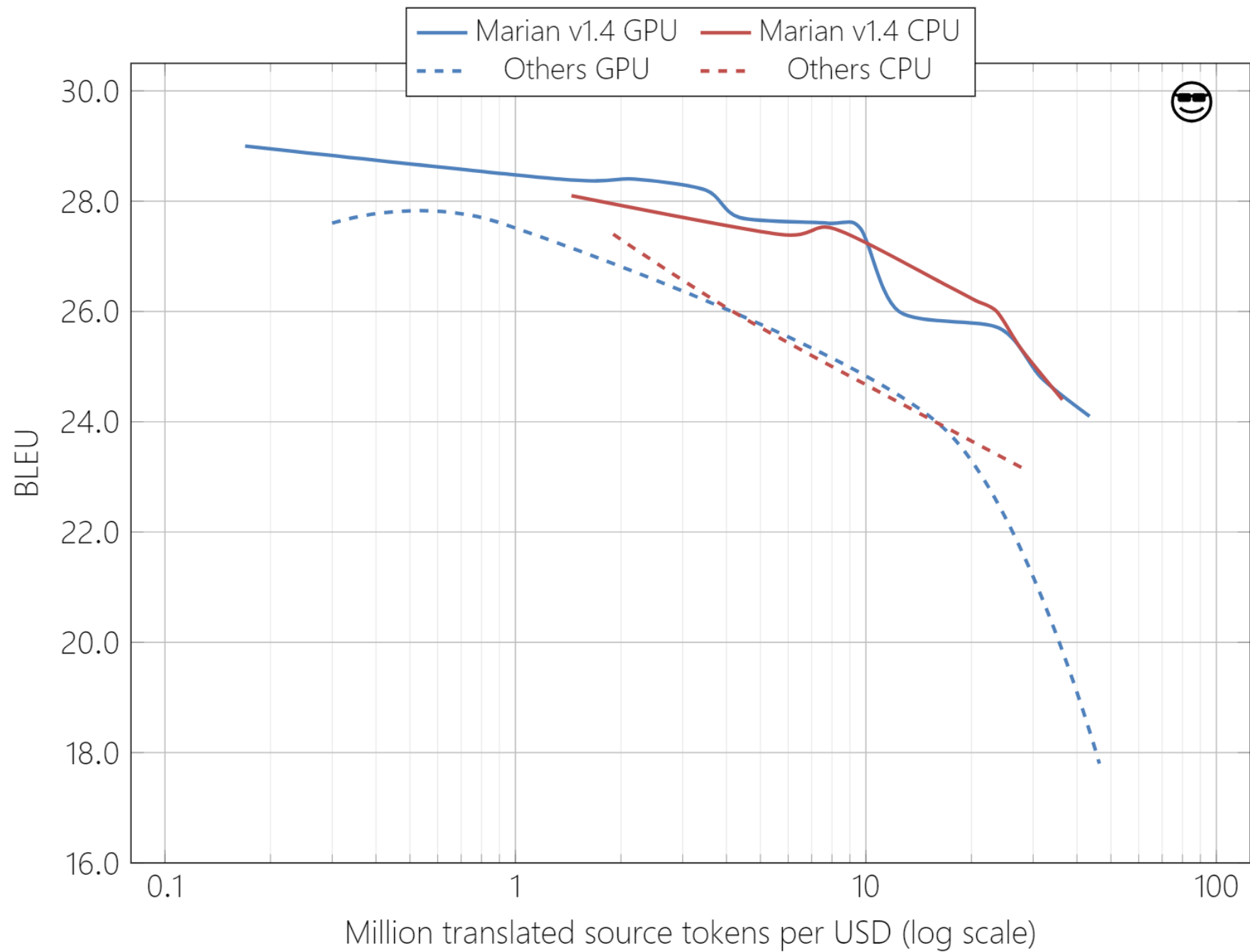


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Lines of code over time







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Scored Systems

System	Submitter	System Notes	Constraint	Run Notes	BLEU	BLEU-cased	TER	BEER 2.0	CharactTER
Marian-Transformer (Details)	marcinjd Microsoft	Marian Transformer-Big	yes	Transformer-big ensemble x4. With back-translation, data-filtering on Paracrawl with domain-weighting. Decoder-time ensembling with transformer-LM, right-to-left decoding.	48.9	48.3	0.407	0.697	0.362
NMT-SMT Hybrid (Details)	fstahlberg University of Cambridge	MBR-based combination of neural models and SMT	yes		47.1	46.6	0.415	0.691	0.369
NTT Transformer-based System (Details)	makoto-mr NTT	Based on Transformer Big model. Trained with filtered version of CommonCrawl, ParaCrawl and synthetic corpus of newscrawl2017. R2L reranking.	yes		47.0	46.5	0.426	0.688	0.370
Primary Submission (Details)	pianist Karlsruhe Institute of Technology	Primary Submission	yes		46.9	46.3	0.428	0.687	0.382
MMT-unconstraint (Details)	nicolabertoldi MMT srl		no		46.7	46.2	0.432	0.682	0.387
JHU (Details)	jhu-nmt Johns Hopkins University	Marian Deep RNN	yes	Marian deep model, ensemble of 4 runs using base data (without Paracrawl), re-back-translated news 2016. Not final system yet.	43.6	43.0	0.453	0.670	0.394
MMT-constraint-dec (Details)	nicolabertoldi MMT srl		yes		42.9	42.5	0.463	0.667	0.411
NJUNMT (Details)	ZhaoChengqi Nanjing University	transformer base without back translation	yes	transformer base without back translation	40.6	40.0	0.496	0.647	0.436
LMU-unsupervised-nmt-wmt18-en-de (Details)	Matthias.Huck LMU Munich	Unsupervised NMT (no parallel training corpora)	yes		15.8	15.5	0.762	0.500	failed
RWTH Unsupervised NMT Ensemble (Details)	yunsukim RWTH Aachen University	(Unsupervised) Transformer with shared encoder/decoder, separate top-50k word	yes		15.9	14.8	0.753	0.514	0.607



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James Bradbury

@jekbradbury

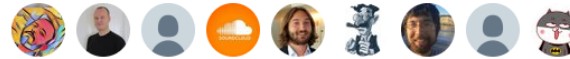
Following



Facebook's fairseq MT engine is really, really fast... Like, 50% faster than [@marian_nmt](#) (which is itself way faster than Sockeye/OpenNMT/Tensor2Tensor/xnmt/Ne matus/etc) at generating from the same Transformer model
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Tweet your reply



Marian NMT @marian_nmt · Jun 15



Replying to [@jekbradbury](#)

Hold my beer ;)



1



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James Bradbury

@jekbradbury

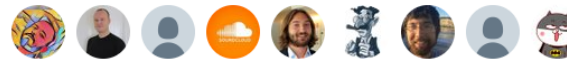
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139



Tweet your reply



Marian NMT @marian_nmt · Jun 15

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Marian NMT @marian_nmt · Jun 17



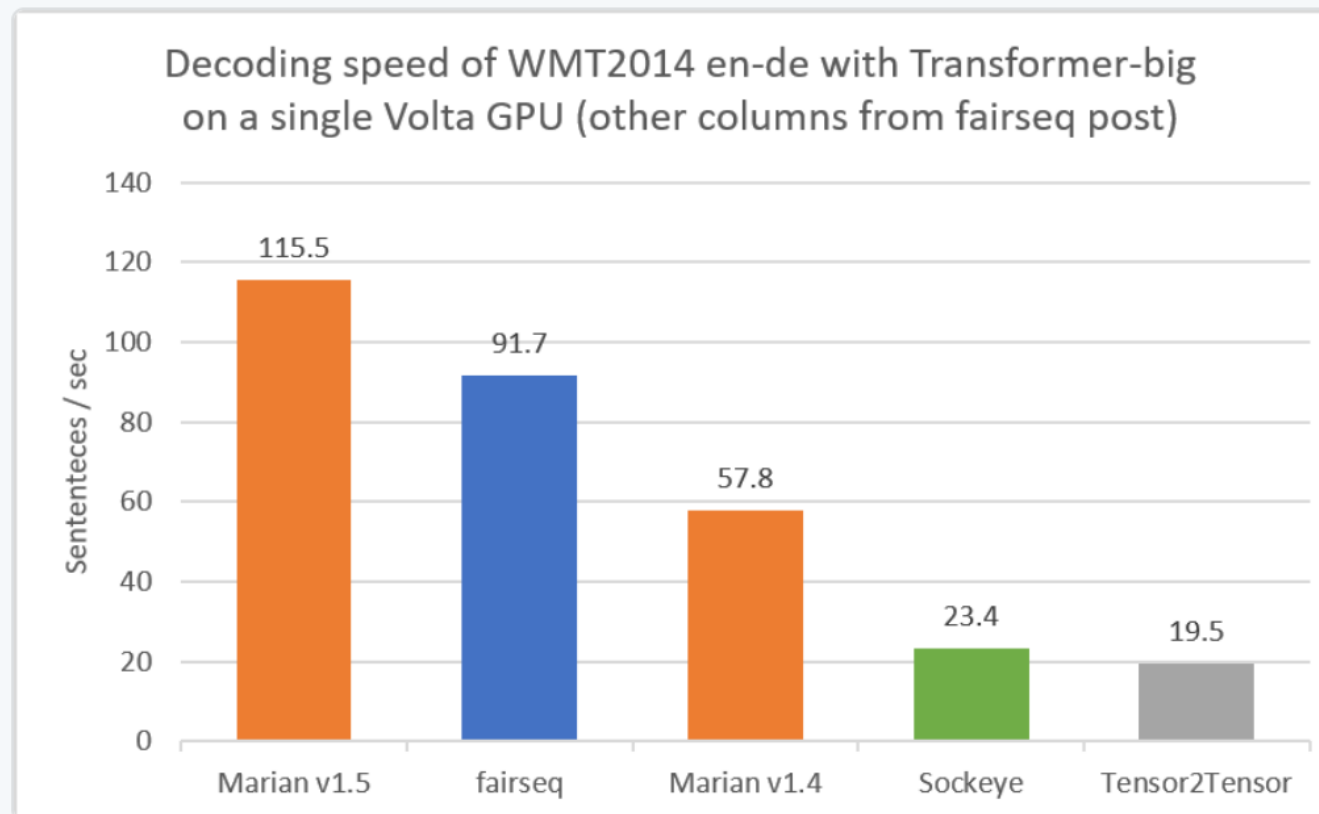
Boom! Marian v1.5.0 released.

Includes:

- Extensions from the WNMT shared task on efficiency arxiv.org/abs/1805.12096
- Optimized GPU-decoding for Transformer models.

See chart below for speed comparison to v1.4.0 (based on FAIR's post)

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4



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